

THE
PROBLEMS
OF
Aristotle^K;

WITH OTHER
PHILOSOPHERS
AND
PHYSICIANS.

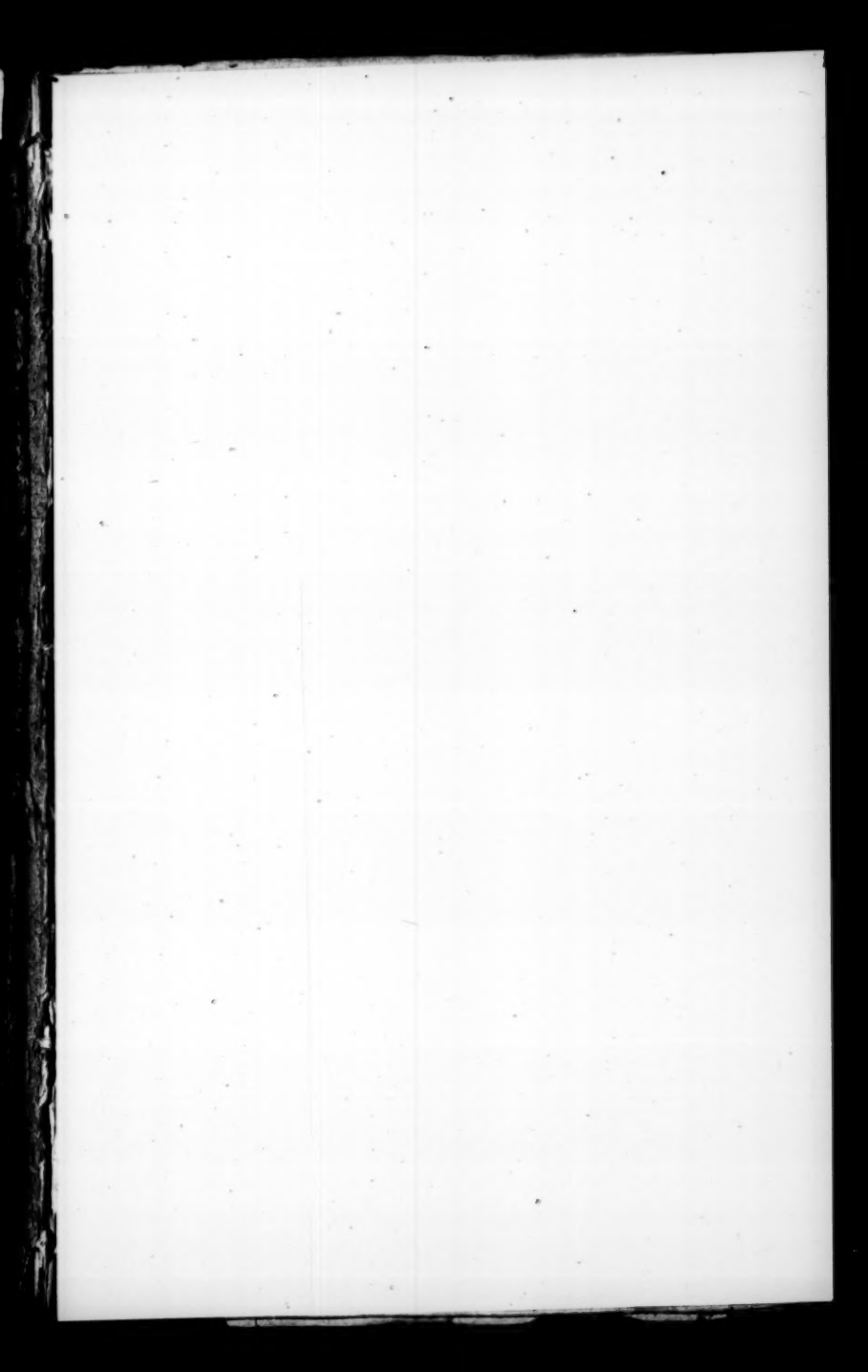
Wherein are contained divers
QUESTIONS
With their
ANSWERS.

Touching
The Estate of Mans Body.

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To the Reader.

EVery Man doth wonder (Gentle Reader) at an Eclipse of the Sun, or of the Moon, and gazeth at a Blazing Star, and beholdeth with admiration an Exquisite Picture, drawn with the Pensil of a Skilful Hand; yea, all Novelties do please, be they never so small. But if they be once common, be they never so great Wonders, no man vouchsafeth to give them the looking on. But then as Seneca doth say, Non est Æthiopis inter suos insignitus color: The self-same doth happen in Man, and the wonderful workmanship of his Body, and unspeakable Excellency of his Soul; for if we regard his Excellency, he doth surpass all Creatures under Heaven: And therefore the Egyptians being ravished with the Contemplation of Mans Dignity and Perfection, doubted not to call him a Terrestrial God, and Celestial Creature, a Messenger of the Gods, Lord and Master of things below, and a Familiar Friend to those which live above a Miracle of Nature; and as Seneca doth call him, Natures Darling.

It is said, that after that Phidias, a most Famous Carver, had made Minerva's Shield, he ingraved his own Portraiture so lively and deeply in the same, that it could never be taken out again, without the defacing the whole work. So God himself, a far more Excellent Workman than Phidias, after he had made the Universal World, and all Creatures therein, for a Token of his Skill, drew it anew in a small

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compass, as an abridgment of all his works, to wit, when he had made Man, who is a Microcosm, or little World; and in him Printed his own Image and Similitude so lively, that no Power whatsoever is able to blot it out. This Image and Similitude is the Soul and Understanding, which he would never have Printed in Man, unless he had first made him a Body of a substance fit and apt to receive that Impression; and unless also he had so skilfully framed it, that it should be worthy to receive so great an Ornament as the Understanding is. And therefore the Body of Man was made of a complexion most pure, and delicate, and in a shape comely and beautiful; and yet notwithstanding all these Perfections which Man hath in himself, few or none take delight in the study of himself, or is careful to know the substance, state, condition, quality, and use of the parts of his own body, although he be the honour of Nature, and more to be admired than the strangest and rarest Wonder that ever hapened. The cause of this is no other, but because Mans Nature delighteth in Novelties, and neglects to search out the cause of those things which are common.

I have therefore thought good to give thee in a known Tongue this little Book, written by the deepest of all Philosophers, who teacheth the use of all the parts of Mans Body, their Nature, Quality, Property and Substance; which may bring thee in reading of it, if read it thou wilt, no less Delight than Profit, nor no less Profit than Delight.

Farewell.

Felix qui potuit rerum cognoscere causas.

The first Problem.

Q. **A**mong all living Creatures, why hath Man only his Countenance lifted up towards Heaven?

A. Unto this Question there are divers Answers:

First, It proceeds from the will of the Creators self: and although the Answer be true, yet in this our purpose it seemeth not to be of force, because that so all Questions might easily be dissolved.

Secondly, I answer, That for the most part every Workman doth make his first work worse, and then his second better; and so God creating all other beasts before Man, gave them their face looking down to the earth. And then secondly, he created Man, as it doth appear in *Genesis*, unto whom he gave an honest shape, lifted up unto Heaven, because it is drawn from Divinity, and doth also derogate from the goodness of God, who maketh all his works perfect and good.

Thirdly, It is answered, That man only among all living Creatures, is ordained to the Kingdom of Heaven; and therefore hath his face elevated, and lifted up to Heaven, because that despising Worldly and Earthly things, he ought to contemplate on Heavenly things.

Fourthly, That the reasonable Soul is like unto Angels, and finally ordained towards God, as it appeared by *Averroes*, in the first *de Anima*; and therefore he hath a figure looking upward.

Fifthly, That Man is a Microcosm, that is, a little World, as it pleaseth *Aristotle* to say in the Eighth of his *Phys.* and therefore he doth command all other living Creatures, and they obey him.

Sixthly, It is answered, That naturally there is unto every thing, and every work that form and figure given, which is fit and proper for its motion: as unto the Heaven roundness, to the fire a Pyramidical form that is, broad beneath, and sharp towards the top; which form is most apt to ascend

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and so man had his face up to Heaven, to behold the wonders of Gods works.

Q. Why is the head of beasts hairy ?

A. The Answer, according to the opinion of *Const.* is, That the hairs are an ornament of the head, and of the brain; and the brain is purged and evacuated of gross humors by the growing of the hair, from the highest unto the lowest parts, which pass through the pores of the exterior flesh, and do become dry, and are converted into hairs. This appears to be true, because that in all mans body there is nothing dryer than the hairs; for they are dryer than the bones, as *Albertus Magnus* doth affirm, because that some Beasts are nourished with bones, as Dogs; but no beast can digest feathers, or hair, but do void them undigested: and they are so dry, that they are not for nutriment.

Secondly, It is answered, That the Brain is purged four manner of ways: First, of superfluous watry humors, by the Eyes: from melancholy, by the Ears: and of choler, by the Nose; of Flegm, by the hair; and that is the intent of the Physitian.

Q. Why have Men longer hair on their heads than other living Creatures?

A. Arist. de Generat. Anim. That men have the moisteft brain of all living creatures, from the which the seed proceedeth, which is converted into the long hair of the head.

Secondly, It is answered, That the humors of man are fat, and do not become dry easily, and therefore the hair groweth long in him: in other Beasts the humors are easily dried, and therefore the hair groweth not so long.

Q. Why doth the hair take deeper root in Mans skin, than in other living Creatures?

A. Because they have greater store of nourishment in Man and therefore grow more into the inward parts of Man: And this is also the reason why in other Creatures the hair doth alter and change with the skin, and not in Man, unless it be sometimes a scar or wound.

Q. Why have women longer hair than men?

A. Because Women are moister than Men, and more flegmatick,

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matck, and therefore there is more matter of hair in them, and by consequence, the length also of their hairs doth follow. And furthermore, this matter is more increased in Women than in men from their interior parts, and especially in the time of their Monethly Terms, and Flowers, because the matter doth then ascend, whereby the humor which breedeth the hair doth increase. And *Albertus* doth say, That if the hair of a Woman in the time of her Flowers be put into dung, a venomous Serpent is ingendred of it.

The second answer is, Because Women want Beards, and so the matter of the Beard doth go into the matter of the hair.

Q. *why have some men soft hair, and some hard?*

A. We answer with *Aristotle*, That the hair hath proportion with the skin, of which some is hard, some thick, some subtil and soft, some gross: therefore the hair which groweth out of a thick and gross skin, is thick and gross, and that which groweth of a subtil and fine, is fine and soft: and when the Pores are open, then cometh forth much humor, and therefore hard hair is ingendred: and when the Pores are strait, then there doth grow soft and fine hair. And this doth *Aristotle* shew in men, in whom we have an eminent token, because Women have softer hair than they, because that in Women the Pores are shut, and are strait, by reason of their coldness.

Secondly, Because that for the most part cholerick men have harder and thicker hair than others, by reason of their heat, and because the Pores are ever open in them, and therefore also they have Beards sooner than others. Whereupon the Philosopher saith, that these beasts which have hard hair are the boldest, because such hair proceedeth of heat and choler, which choler maketh men fight. *Aristotle* also giveth example in the Bear and the Bore; and contrariwise those beasts that have soft hair are fearful, because they be cold, as the Hare and Hart. *Aristotle* doth give another reason of the softness and hardness of the hair drawn from the Climate where a man is born; because that in hot Regions hard and gross hair is ingendred, as it

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appeareth in the Ethiopians, and the contrary is true in a cold Countrey, as towards the North.

Q. Why have some men curled hair, and some smooth?

A. The answer is, That the cause of the curling of the hair, is great abundance of heat; so that if there be much heat in a man, then the hair doth curl and grow upward. And a sign of this is proved true, because that sometimes a man doth enter into a Bath smooth-haired, and afterward by the Bath becometh curled. And therefore the Keepers of Baths have often curled hair, and also the Ethiopians and cholerick men. But the cause of the smoothness is the abundance of moist humors which tend downward; and a proof of this is, because Women for the most part have smooth hair, because they have much humidity in them, and small heat.

Q. Why do women shew their ripeness by the hair in their privy parts, and not elsewhere, but men in their breasts?

A. We answer Physician-like, because in men and women there is abundance of humidity in that place, but more in women, because men have the mouth of the bladder in that place where the Urine is contained, of the which the hair in the breast is ingendred, and about the Navel. But of Women it is said, that the humidity of the Bladder, and of the Matrix or Womb, is joyned, and meeteth in that low secret place; and therefore is dissolved and separated in that place through much vapours and fumes, which are the cause of hair. And the like doth happen in other places where hair is, and under the arms.

Q. Why have not women Beards?

A. Because they want heat; as appeareth in some effeminate men, who are beardless for the same cause, because they are of the complexion of women.

Q. Why doth the hair grow in them that are hanged?

A. Because their bodies are exposed to the Sun, the which through his heat doth dissolve all the moisture into a fume or vapour, of which the hair doth grow and increase.

Q. Why is the hair of the Beard thicker and grosser than else-

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elsewhere, and the more men are shaven, the harder and thicker it groweth?

A. Because according to the rule of the Physicians, by how much more the humor or vapour of any liquor is dissolved and taken away, by so much the more the humor remaining doth draw to the same: and therefore how much the more the hair is shaven, so much the more the humors gather thither; and of them the hair is ingendred, and doth there also wax hard.

Q. Why are women smooth and fair in respect of men?

A. The answer is, according unto *Arist. de Generat. Animal.* Because that in women all humidity and superfluity, which are the matter and cause of the hair of the body, is expelled with their Monthly Terms; the which superfluity remaineth in men; and through vapors do pass into the hair. And a sign of this is, because women have seldom any running at the Nose, or Imposthume or Ulcer, but such matter is expelled also. And we see some old Women begin to have beards in their old age, that is, after forty or fifty years of age, when their Flowers are ceased; as *Aristotle* doth teach, *de animal. lib. 9.*

Q. Why doth Man only, above all other Creatures, wax hoary and grey, as *Protagoras* and *Aristotle* affirm?

A. The answer, according unto the Philosopher is, because man hath the hottest heart of all living Creatures: And therefore nature being more wise, lest a man should be suffocated through the heat of his heart, hath placed the heart, which is most hot, under the brain, which is most cold; to the end, that the heat of the heart may be temper'd with the coldness of the brain; and contrariwise, that the coldness of the brain may be heated with the heat of the heart, and thereby there might be a temperature in both. A sign to prove this is, because that of all living Creatures Man hath the worst breath, if he come to his full age. Furthermore, Man doth consume half his time in sleeping, which doth proceed from the great access of the coldness and moisture of the brain, and by that means doth want natural heat to digest and consume that moistness; the
which

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which heat he hath sufficiently in his Youth; and therefore in that age is not gray, but in his old age, when heat faileth; and therefore the vapours ascending from the stomach remain undigested and unconsumed for want of natural heat, and then putrifie, of which putrification of humors, the whiteness doth follow, which is called greyness, or hoariness. Whereby it doth appear, that hoariness is nothing else but a whiteness of the hair, caused by the putrification of humors about the roots of the hair, through the want of natural heat in old age. Sometimes also greyness is caused by the naughtiness of the complexion, which may well happen in youth, and sometimes by reason of the moisture undigested, and sometimes through over-great fear or care, as it appeareth in Merchants, Sailers, Thieves: from whence cometh this verse.

Cura facit canos, quamvis homo non habet annos,

Q. Why doth red hair grow white sooner than other?

A. According to the opinion of *Aristotle*, because redness is an infirmity of the hair; for it is ingendred of a weak and infirm matter; that is to say, of matter corrupted with the Flowers of the Women; and therefore they wax white sooner than black hair.

Q. Why do Wolves grow grisly?

A. The better to understand this question, note the difference between greyness and grisliness; because that greyness is caused through the defect of natural heat, but grisliness through devouring and eating, as *Aristotle* witnesseth, 7 *de Animal*. The Wolf being a devouring beast, and a great Eater he letteth it down gluttonously without chewing, and that at once enough for three days: of which meat gross vapours are ingendred in the Wolves body; and by consequence grisliness. Secondly, greyness and grisliness do differ, because greyness is only in the head, and grisliness over all the body,

Q. Why do Horses grow grisly and grey?

A. According to *Aristotle*, because they are for the most part in the Sun: And in his Opinion also, heat doth accidentally cause putrification; and therefore of that kind of heat

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heat the matter of hair doth putrifie ; and by consequence they are quickly pill'd.

Q. why do men become bald, and Trees fall their Leaves in the winter ?

A. Aristotle doth give the same reason for both ; because that the want of moisture in both, is the cause of the want of the hair, and of the leaves : And this is proved, because that a Man becometh bald through Venery, because that lechery is a letting forth of natural humidity and heat. And so by that excess in Carnal pleasure, 'moisture is consumed, which is the nutriment of the hair, and therefore baldness doth ensue. And this is evidently proved in Eunuchs and Women which do not grow bald, because they do not depart from the moistness : And thereupon Eunuchs are of the Complexion of Women. But if you ask why Eunuchs be not bald, nor have not the Gout, as *Hipocrates* saith : The answer is, according unto *Galen*, because the cause of baldness is driness, the which is not in Eunuchs, because they want their stones, the which do minister heat unto all the parts of the body, and the heat doth open the pores, the which being open, the hair doth fall.

Q. why are not women bald ?

A. Because they are cold and moist, which are the cause that the hair remaineth ; for moistness doth give nutriment unto the hair, and the coldness doth bind the pores.

Q. why are bald men deceitful, according to the verse ?

Si non vis falli, fugius consortia calvi.

A. Because baldness doth witness a cholerick complexion, which is hot and dry ; and cholerick men are naturally deceitful, according to that verse.

Hirsutus, fallax, irascens, prodigus, audax.

And therefore it followeth, *a primo ad ultimum*, that bald men are deceitful and crafty.

Q. why are not blind men naturally bald ?

A. Because that according unto *Aristotle*, the eye hath more moisture in it, and that moisture which should pass through by the substance of the eyes, doth become a sufficient nutriment of the hair, and therefore they are seldom bald.

Q. why

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Q. *Why doth the hair stand an end when men are afraid?*

A. Because in the time of fear, the heat doth go from the outward part of the body, unto the inward, to the intent to help the heart; and so the Pores, in which the hair are fastened, are shut up: after which stopping and shutting up of the Pores, the standing up of the hairs doth follow, as it is seen in brut beasts, as Dogs, wild Boars, and Peacocks.

Of the Head.

Q. **W***hy is a Mans head round?*

A. Because this figure is most fit to receive any thing into it, as *Aristotle* doth affirm, *Lib. de Cael.* and the Head doth contain in him the five Senses. This is also seen in a material Sphere.

Q. *Why is the Head round?*

A. *Aristotle* saith, Because it doth contain in it the moiftest parts of the living Creatures; and also, because the brain may be defended thereby, as with a Shield.

Q. *Why is not the Head absolutely long, but somewhat round?*

A. To the end the three Creeks and Cells of the Brain might the better be distinguished; that is, the fancy in the forehead; the discoursing or reasonable part in the middle; and the memory in the hindermost part.

Q. *Why doth a man lift up his Head towards the Heavens, when he doth Imagine?*

A. Because the Imagination is in the forepart of the head, or brain; and therefore it listeth up it self, that the Creeks or Cells of the Imagination may be opened, and that the Spirits which help the Imagination, and are fit for that purpose, having their concurrence thither, may help the Imagination.

Q. *Why doth a man when he misseth, or think on things past, look down toward the earth?*

A. Because the Cell or Creek which is behind, is the Creek or Chamber of Memory, and therefore that looketh towards Heaven when the head is bowed down; and so that Cell is opened, to the end that the Spirits which perfect the Memory should enter in.

Q. *Why*

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Q. Why is not the head fleshy, like unto the other parts of the body?

A. Because that according to Aristotle, the Head would be too heavy, and would not stand stedfastly; and therefore it is without flesh. Also a Head loaden with flesh, doth becomen an evil complexion.

Q. Why is the head subject to aches and griefs?

A. According unto Constant. by reason of evil humours which proceed from the stomach, and ascend unto the head and disturb the brain, and so cause the pain in the head. And sometimes it proceeds from overmuch filling the stomach; because, according unto the opinion of Galen, two great sinews pass from the brain to the mouth of the stomach, and therefore these two parts do suffer grief always together. Sometimes the ach doth proceed of drinking strong Wine, of summing Meats, as Garlick, or Onions; and sometime of flegm in the stomach, whereof spring Quotidian Feavers.

Q. Why have Women the head-ach more often than Men?

A. Albertus saith, that it is by reason of their Monethly Terms, which men are not troubled with; and so a moist, unclean and venomous fume is dissolved, the which seeking passage upward, doth cause the head-ach.

Q. Why is the brain white?

A. There are two answers: The first, because it is cold, and coldness is the Mother of white, the Philosophers do reach. The second, because it may receive the similitude and likeness of all colours, which the white colour can best do, because it is most simple.

Q. Why are all the Senses in the head?

A. Because (as Albertus saith) the brain is there, of which all the Senses do depend, and are directed by it, and by consequence it maketh all the spirits to feel, and by it all the Members are governed.

Q. Why cannot a man escape death, if the brain or heart be hurt?

A. Because the Heart and the Brain are two of the principal parts which concern Life; and therefore if they be hurt, there is no remedy left for cure,

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Q. *Why is the Brain moist?*

A. Because it may easily receive any impression, which moisture can best do, as it appeareth in Wax, which doth easily receive the print of the Seal when it is soft.

Q. *Why is the Brain cold?*

A. This is answered two ways: First, because that by his coldness it may clear the understanding of a man, and make it subtile. Secondly, that by the coldness of the Brain the heat of the heart may be tempered: And this is *Aristotles* intent, *Lib. de Animal.*

Of the Eyes.

Q. **W***hy have we one Nose and two Eyes?*

A. Because our sight is more necessary for us than the smelling: And therefore it doth proceed from the goodness of Nature, that if we receive any hurt or loss of one Eye, that yet the other should remain: Unto the which, the spirit with which we see, called *Spiritus Visus* is directed when the other is out, as it is plain in the common Perspective.

Q. *Why have Children in their youth great eyes, and why do they become smaller and lesser in their age?*

A. According to *Aristotle*, *de generat.* It proceedeth from the great humidity of the Brain; and for the same cause Children are very sleepy.

Q. *Why do black eyes see well in the day time, and bad by night?*

A. According to that opinion of *Aristotle*, it proceedeth from the want of fire, and from the assembling and meeting together of light and humor in the eyes; which are lightened by reason of the Sun; which doth lighten the easie humour of the eye, and purge it; and in the absence of the Sun, those humors become dark and black; and therefore the sight nor so good.

Q. *Why doth the blewish grey eyes see badly in the day time, and well by the night?*

A. Because (saith *Aristotle*) greyness is light and shining of it self, and the spirits with which we see are weakened in the day time, and strengthened in the night.

Q. *Why*

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Q. Why be Mens eyes of divers colours?

A. This proceedeth, saith *Aristotle*, by reason of the diversity of humours. The Eye therefore hath four coverings and three humours. The first covering is called *Consolidative*, which is the uttermost, which is strong and fat. The second is called an *horny skin or covering*, to the likeness of an horn, and that is a clear covering. The third is called *Uvea*, of the likeness of a black grape. The fourth is called a *Cobweb*. But according to the opinion of some, the eye doth consist of seven coverings or skins, and three humours. The first humour is called *Albuginos*, for the likeness unto the white of an Egg. The second *Glacial*, that is clear, like unto Ice, or *CrySTALLINE*. The third *Vitreous*, that is clear like a glass. And that diversity of humours causeth the diversity of the Eyes.

Q. Why are men that have but one Eye good Archers? and why do good Archers commonly shut one eye? And why do such as behold the Stars, look through a trunk with one Eye?

A. This matter is handled in the perspective Art, and the reason is, as it doth appear in the Book of Causes, because that every vertue and strength united and knit together, is stronger than it self dispersed and scattered. Therefore all the force of seeing dispersed into two eyes, the one being shut, is gathered into the other; and so the light is fortified in him; and by consequence, he doth see better and certainly, with one eye being shut, than both being open.

Q. Why do such as drink much, and laugh much, shed tears?

A. Because that whilst they drink and laugh without measure, the Air which is drawn in, doth not pass out through the Wind pipe, and so with force is directed and sent to the Eyes; and by their Pores passing out, doth expel the humors of the Eyes; the which humors being so expulsed, do bring tears.

Q. Why do such as weep much, urine but little?

A. Because (saith *Aristotle*) the Radical humidity of a Tear, and of Urine, are of one and the same nature. And therefore where weeping doth increase, there Urine doth diminish.

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diminish. And that they be of one nature, is plain to the taste, because they are both salt.

Q. Why do some which have clear eyes see nothing at all?

A. By reason of the Oppilation and naughtiness of the Sinews with which we see. For the Temples being destroyed, the strength of the sight cannot be carried from the Brain to the Eye, as the Philosopher doth teach, *Lib. de Sen. & sensato.*

Q. Why is the Eye clear and smooth like unto glass?

A. Because the things which may be seen, are better beaten back from a smooth thing than otherwise, that thereby the Sight should be strengthened.

Secondly, I answer, It is because the Eye is very moist above all parts of the Body, and of a waterish nature: And as the water is clear and smooth, so likewise is the Eye,

Q. Why do men which have their eyes deep in their head see well afar off, and the like of other Beasts?

A. Because (saith Aristotle. 2. de Gener. Animal.) the force and power by which we see, is dispersed in them, doth go directly to the thing which is seen.

And this is proved by a similitude, because that when a man doth stand in a deep Ditch, or Well, he doth see in the day time, standing in those places, the stars of the Firmament; as Aristotle doth teach in his Treatise *de Forma speculi*; because that then the power of the sight and the beams are not scattered.

Q. Wherefore do those men which have their eyes far out, and not deep in their heads, see but meanly, and not far distant?

A. Because (saith Aristotle) the beams of the sight which pass from the eye, are scattered on every side, and do not go directly unto the thing that is seen, and therefore the sight is weakened.

Q. Why are many Beasts born blind, as Lyons whelps, and Dogs whelps?

A. Because such Beasts are not as yet of perfect ripeness and maturity, and the course of nutriment doth not work in them. And this is proved by a similitude of the Swallows,

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Iows, whose eyes, if they were taken out when they are little ones in the Nest, would grow again. And this is plain in many other beasts which are brought forth before their time, as it were dead; as Bears-whelps. And this reason doth belong rather to the Perspective, than the Natural Philosopher.

Q. Why do the eyes of a woman that hath her Flowers stain a new Glass, as Arist. saith, de Somn. & Vigil. and this the like Problem; Why doth a Basilisk kill a man with his sight?

A. To the first answer is, That when the Flowers do run from a Woman, then a most venomous Air is dissolved in them, which doth ascend unto the Womans head; and she having grief of her head, doth cover it with many Veils and Kerchiefs: And because the eyes are full of small insensible holes, which are called Pores, there the Air seeketh a passage, and so doth infect the eyes, which are full of blood. And their eyes do appear also dropping, and full of tears, by reason of the evil vapour that is in them; and those vapors are incorporated and multiplied, until they come unto the Glass before them: and by reason that such a Glass is very sound, clear, and smooth, it doth easily receive that which is unclean.

To the second it is answered, that the Basilisk is a very venomous and infected Beast, and that there pass from his eyes venomous vapours, which are multiplied upon the thing which is seen by him, and even unto the eye of man: The which venomous vapours of humours entering into the body, do infect him; and so in the end the man dieth. And this is also the reason why the Basilisk looking upon a Shield perfectly well made with fast clammy pitch, or any hard smooth thing doth kill himself, because the humours are beaten back from this smooth hard thing unto the Basilisk, by which beating back he is killed. And the like is said of a Woman when she hath her monthly Disease, whereof it followeth, that some old women do hurt themselves when they look upon Glasses or other firm or soild things, in the time of their Terms.

Q. Why is not the sparkling of Cats-eyes and Wolves-eyes seen in the light, but in the dark?

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A. Because that the greater light doth darken the lesser, and therefore in a greater light that sparkling cannot be seen: but the greater the darkness is, the easier it is seen, and is made more strong and shining, because it is not then hindered by a greater external light which might darken it.

Q. Why doth a man beholding himself in a Glass, presently forget his own disposition?

A. The answer is made in *Lib. de forma speculi*, That the Image seen by the Glass, doth represent it weakly and indirectly to the power of the sight: and because it is represented weakly, it is weakly also apprehended; and by consequence is not long retained.

Q. Why is the sight recreated and refreshed by a green colour, as his Verse sheweth?

Fons. speculum, gramen oculis sunt alleviament.

A. Because the green colour doth meanly move the instrument of sight, and therefore doth comfort the sight; but thus doth not black nor white colours, because these colours do vehemently stir and alter the Organ and Instrument of the sight, and therefore make the greater violence: but by how much the more violent the thing is which is felt or seen, the more it doth destroy and weaken the Sense: as *Aristotle* doth teach, *lib. 2. de animal.*

Of the Nose.

Q. Why doth the Nose stand out farther than other parts of the body?

A. There are two Answers: the first because the Nose is as it were the sink of the brain, by the which the flegm of the brain is purged; and therefore it doth stand forth, lest the other parts should be defiled. The second (according to *Constant.*) is, because the Nose is the beauty of the face, and therefore it doth shew it self, and shine. It doth smell also, and adorn the face; as *Boetius* saith, *de discip. Schol.*

Q. Why hath man the worst smell of all other living Creatures, as it doth appear, *lib. 2. de animal.*

A. Because that Man (as the Commentator saith) in respect

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spect of his quantity, hath the most brain of all Creatures : And therefore by that exceeding coldness and moistness, the brain wanteth a good disposition, and by consequence the smelling, seeing the instrument is not good, as *Aristotle* and *Themistocles* do teach. Yea, some men there be, which do not smell at all.

Q. Why doth the Vulture or Cormorant smell very well, as the Commentator doth say ?

A. Because they have a very dry brain ; and therefore the Air carrying the smell, is not hindred by the humidity of the brain, but doth presently touch his Instrument : And therefore he saith. That the Vultures, Tygres, and other Beasts, came five hundred miles to the dead bodies after a Battle in Greece.

Q. Why did nature make the Nostrils ?

A. For three commodities. First, because that the mouth being shut, we draw breath in by the Nostrils, to refresh the heart with. The second commodity is, because that the Air which proceedeth from the mouth doth savour badly, because it doth savour of the vapours which rise from the Stomach, but that which we breath from the Nose, is not so noysom. The third is, because the flegm, which doth proceed from the brain is purged by them.

Q. Why do men sneeze ?

A. Because that the expulsive vertue or power, and the sight, should thereby be purged, and the brain also from superfluities ; because that as the lungs are purged by Coughing, so the sight and brain by sneezing ; and those which sneeze oft, are said to have a strong brain : and therefore the Physitians give sneezing Medicaments to purge the brain : and such sick persons as cannot sneeze, die quickly, because it is a sign their brain is wholly stuffed with evil humours, which cannot be purged.

Q. Why do such as are Apoplectick, sneeze ; that is, such as are subject easily to bleed ?

A. Because the Passages and ventricles of the Brain are stopped in them ; and if they could sneeze, their Apoplexy would be loosed.

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Q. Why doth the heat of the Sun provoke sneezing, and not the heat of the fire?

A. Because the heat of the Sun doth only dissolve, and not consume; and therefore the vapour dissolved, is expelled by sneezing; but the heat of the fire doth dissolve and consume; and therefore rather doth consume Sneezing, than provoke.

Of the Ears.

Q. Why do all Beasts move their ears and not a man?

A. Because there is a certain Muscle near unto the Jaw, which doth hinder motion in the Ear; and therefore that Muscle being extended and stretched, men do move their ears, as it hath been seen in divers men; but all beasts do use that muscle, or fleshy sinew, and therefore do move their ears.

Q. Why is Rain Prognosticated by the pricking up of the Asse's Ears?

A. Because the Ass is a very melancholy beast, and it proceedeth from melancholy, that he doth foresee Rain to come. In the time of Rain all beasts do prick up their ears, and therefore the Ass perceiving that it will rain, doth prick up his ears before it come.

Q. Why have some Beasts no Ears?

A. Aristotle doth answer and say, That Nature doth give unto every thing that which is fit for it; but if she should have given birds ears, their flying would have been hindered by them. Likewise Fish do want ears, because they would hinder their swimming; and have only certain little holes through which they do hear, as Aristotle doth declare by the Sea-calf.

Q. Why have Bats Ears, seeing they seem to be Birds?

A. Because they are partly birds in nature, in that they do fly, by reason whereof they have wings; and partly they are hairy, because they are Mice; and therefore Nature, as being wise, gave them wings.

Q. Why hath only man round ears?

A. Because the shape of the whole and of the parts should be

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be unproportionable, and especially in things of one nature; for as a drop of water is round, so the whole water, as *John de sacro Bosco* doth prove. And so because a mans head is round, the ears incline toward the same figure; but the heads of beasts are somewhat long, and so the ears are drawn into length also.

Q. *Why did nature give living Creatures ears?*

A. For two causes. 1. Because with them they should hear. 2. Because that by the ears cholerick superfluity is purged; for as the head is purged of flegmatick superfluity by the Nose, so from cholerick by the Ears.

Of the Mouth.

Q. *Why hath the Mouth Lips to compass it?*

A. According unto *Const.* because the lips do cover and defend the teeth, for it were unseemly that the teeth should alwayes be seen. Another answer is, that the teeth are of a cold nature, and would therefore be early hurt, if they were not covered with the lips. Another Moral reason is, because a man should not be too hasty of speech.

Q. *Why hath a man two eyes, two ears, and but one mouth?*

A. Because a man should speak but little, and see and hear much. And withal *Aristotle* doth say, that the hearing is the Sense with which Learning is gotten; and he saith, that the light doth shew us the difference of many things; and *Seneca* doth agree unto this, affirming, that nature hath environed the Tongue with a double Cloister, the Teeth and Lips, and hath made the Ears open and wide; and hath given us but one mouth to speak little, though we hear much.

Q. *Why hath a Man a Mouth?*

A. For many commodities. 1. Because the mouth is the gate and door of the Stomach. 2. Because the meat is chewed in the Mouth, and prepared and made ready for the first digestion, although *Avicen* doth hold, that the first digestion is made in the Mouth. 3. because that the Air is drawn into the hollow of the Mouth, for the refreshing of the Heart, is made more pure and subtil. And for many other causes, which shall hereafter appear.

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Q. *Why are the Lips moveable?*

A. Because of forming the voice and words, which cannot be perfectly done without them. For as without *a, b, c*, there is no writing, so without the Lips no voice can well be formed,

Q. *Why do men gape?*

A. This gloss upon the last part of *Hippocrates* his *Apborismis* saith, That it proceedeth of wearisomness. As when a man sitteth among such as he doth not know, whose company he would willingly be rid of. Secondly, Gaping is caused of the thick fumes and vapours which fill the Jaws, by the expulsion of which is caused the stretching out, and extension of the Jaws, and opening of the mouth, which is called Gaping.

Q. *Why doth a man gape when he seeth another man gape?*

A. This proceedeth of the imagination. And this is proved by a similitude; for an Ass is *animal valde sensibile*, by reason of his melancholly, because he doth retain his superfluity a long time, and would neither eat nor piss, unless he should hear another piss. And so a man doth gape through imagination when another man doth gape.

Of the Teeth

Q. *Why do the Teeth only, amongst all other bones feel the sense of feeling.*

A. Because (as *Avicen* and *Galen* do say) they might discern of heat and cold which hurt them, which other bones need not.

Q. *Why have men more teeth than women?*

A. By reason of the abundance of heat and blood, which is more in men than in women.

Q. *Why do Teeth grow to the end of our life, and not the other bones?*

A. Because otherwise they should be consumed with chewing and grinding.

Q. *Why do Teeth only come again when they fall, or be taken out, and other bones taken away grow no more?*

A. Because that according unto *Aristotle*, all other bones are

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are ingendred of the humidity which is called Radical, and so they breed in the Womb of the Mother: but the Teeth are ingendred of nutritive humidity, which is renewed and increased from day to day.

Q. *Why do the fore-teeth fall in Youth, and grow again, and not the Cheek-teeth?*

A. This proceedeth of the defect of matter, and of the figure, because the fore-teeth are sharp, and the other broad. But according to *Aristotle*, there is another answer; that is, that it is the Office of the fore-teeth to cut the meat, and therefore they are sharp; and the Office of the other to chew the meat, and therefore they are broad in fashion, which is fittest for that purpose.

Q. *Why do the fore-teeth grow soonest?*

A. Because we want them sooner in cutting, than the other in chewing.

Q. *Why do teeth grow black in the old age of living creatures?*

A. This proceedeth of the corruption of the meat, and the corruption of flegm, with a naughty cholerick humour.

Q. *Why are Colts teeth yellow, and of the colour of Saffron, when they are young, and wax white when they be old?*

A. *Aristotle* saith, that a Horse hath abundance of watry humors in him, which in his youth are digested and converted into grossness; but in old age heat is diminished, and the watry humours remain, whose proper colour is white.

Q. *Why did nature give living creatures teeth?*

A. *Aristotle* saith (*lib. de generat. animal.*) to some to fight with, and for defence of their life; as unto Wolves and Boars; unto some to eat with, as unto horses; unto some for the forming of their voice, as unto men, as it appeareth by the Commentary in the books *de animal.*

Q. *Why do horned beasts want their upper Cheek teeth?*

A. According to *Aristotle* in his Book *de animal*, horns and teeth are caused of the self same matter, that is, of nutritive humidity; and therefore the matter which passeth into horns, turneth not into teeth; and therefore the upper teeth want. And such beasts, according unto *Aristotle*, cannot chew well; whereupon for want of teeth they have two stomachs

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machs by consequence; and so do chew their meat twice : and they do first convey their meat into the first stomach or belly and then return from whence it came, and chew it.

Q. Why are some creatures brought forth with teeth, as Kids and Lambs; and some without, as Men;

A. Nature doth not want in things necessary, nor abound in things superfluous; and therefore because these beasts not long after they be fallen do need teeth, are fallen with teeth: but men are nourished with their mothers dugs for a time; and therefore for a time want teeth.

Q. Why have not birds teeth?

A. Because the matter of teeth passeth into their beak, and therefore there is their digestion: Or else it is answered, that although they do not chew with teeth, yet their head in digestion doth supply the want of Teeth.

Of the Tongue.

Q. Why is the Tongue full of pores?

A. According to Aristotle *de anima*, because the tongue is the means whereby we taste; & through the mouth, in the pores of the tongue, the taste doth come into the sense of tasting. Otherwise it is answered, that frothy spittle is sent into the mouth by the tongue from the lungs, moistning the meat, and making it ready for the first digestion; and therefore the tongue is full of pores, because many have passing through it.

Q. Why doth the tongue of such as are sick of Agues judge all things bitter?

A. Because the stomach of such persons is filled with cholerick humors; and choler is very bitter as it appeareth by the Gall; and therefore this bitter fume doth infect the Tongue; and so the Tongue being full of these tastes, doth judge them bitter, although the bitterness be not in the meat, but in the tongue.

Q. Why doth the tongue water when we hear sour and sharp things named?

A. Because the imaginative virtue or power is of greater force than the power and faculty of tasting; and when we imagine

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Imagine of a taste, we conceive it by the power of tasting, as by a mean, because there is nothing felt by the taste; but by the mean of that spittle, then the tongue doth water.

Q. Why doth some stammer, and some lisp?

A. This happeneth for many causes; sometimes through the moistness of the tongue and brain, as in children, which cannot speak plainly, nor pronounce many letters. Sometimes it happeneth by the reason of shrinking of certain sinews which are corrupted with flegm; for such sinews there be which go to the tongue.

Q. Why are the tongues of Serpents and mad Dogs venomous?

A. Because of the malignity and fumosity of the venomous humour which doth predominate in them.

Q. Why is a dogs tongue fit and apt for Medicine, and contrariwise an horses tongue pestiferous?

A. 'Tis by reason of some secret property; or else it may be said, that the tongue of a Dog is full of pores, and so doth draw and take away the viscosity of the wound. Some say that a Dog hath by nature some humors in his tongue, with the which by licking he doth heal; the contrary is in a Horse.

Q. Why is Spittle white?

A. By reason of the continual moving of the tongue, whereof heat is ingendred, which doth make white this superfluity, which is spittle; as it is seen in the froth of water.

Q. Why is spittle unsavoury, and without taste?

A. If it had a certain determinate taste, then the tongue would not taste at all, but should only have the taste of spittle, and so could not receive other tastes.

Q. Why doth spittle of one that is fasting heal an Imposthume?

A. Because (according to Avicen) it is well digested, and made subtile.

Q. Why do some abound in spittle more than others?

A. This doth proceed of a flegmatick complexion, which doth predominate in them, and therefore the Physician doth say, that such should take heed of a quotidian Ague, which ariseth from the predomination of flegm: The contrary in those that spit little, because heat abounds in them, which consumes the humidity of the spittle; and so the defect of spittle is a sign of a Feaver.

Q. Why

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Q. why is the spittle of a man which is fasting, more subtil than of one who is full?

A. Because that that Spittle is without the viscosity of meat, which is wont to make the Spittle of one who is full, gross and thick.

Q. From whence proceedeth the Spittle of man?

A. From the froth of the Lungs; which according unto the Physicians, are the seat of flegm.

Q. Why are such beasts as often go together for generation, very full of foam and froth?

A. Because that when the Lights and the Heart are in a great motion of Lust, therefore there is ingendred in them much frothy matter.

Q. Why have not Birds Spittle?

A. Because they have very dry Lungs, according unto Aristotle, in his fifth Book *de animal*.

Q. Why do such as are called Epileptici, that is such as are overwhelmed, and as it were drowned in their own blood, and are diseased, savour badly and corruptly?

A. The answer, according to the Physicians is, because the peccant matter lieth in the head; but if he do vomit, then the matter is in the Stomach: but if he piss much, then the matter is in the passage of the Urine: but if they begin to have seed, then it is in the vessels of the seed; and accordingly unto this the Physicians do purge them.

Q. Why doth the Tongue lose sometimes the use of speaking?

A. The answer is out of Hippoc. that this doth happen through a Palsie of Apoplexy, that is a sudden effusion of blood, and of a gross humour, and sometimes also by the infection of *Spiritus animalis* in the middle Cell of the brain, which hinders that the spirit is not carried to the Tongue; and so is Galens meaning; for by the expression of the tongue, many actions of divers passions are made manifest.

Of the Roof of the Mouth.

Q. Why are the Fruits, before they be ripe, of a naughty relish, or bitter, and after sweet;

A. Naughty

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A. Naughtry relish in taste proceedeth of coldness, and want of heat in gross and thick humidity; but a sweet taste proceedeth of a sufficient heat; and therefore in the ripe fruit the humidity is subtil through the heat of the Sun, and therefore such fruits are commonly sweet; but before they be ripe, the humidity is gross or subtil for want of heat; and therefore then the fruit is bitter and sower.

Q. Why be we rather delighted with sweet tastes, then with bitter, or any other?

A. Because nature is delighted with sweetness. The reason is, because a sweet thing is hot and moist, and through his heat doth dissolve and consume superfluous humidities, and by this humidity immundicity is wash'd away; but a sharp eager taste by reason of the cold which predominates in it, doth bind over-much, and prick and offend the parts of the body in purging. And therefore we do not delight in that taste, because the Physicians counsel us to eat nothing that is bitter in the Summer, nor in a great heat; and the reason is, because bitterness doth breed heat; but wee shall eat bitter things in Winter only. And therefore Aristotle doth say, that sweet things are grateful unto nature, and do greatly nourish.

Q. Why doth a sharp taste, as of Vinegar, provoke appetite rather than any other?

A. Because it is cold, and doth cool. Now it is the nature of cold to desire and draw, and therefore is cause of appetite. Mark, that there are nine kinds of tastes; three which proceed from heat, three from cold, and three from a temperate Mean.

Q. Why do we draw in more Air than we breath out?

A. Arise. and Albertus in his Book *de motu cordis*, do answer, that much air is drawn in, and is turned into nutriment, and with the vital spirits is contained in the lungs. And therefore a beast is not suffocated, so long as he receives air with the lungs, in which some part of the air remaineth also.

Q. Why doth the air seem to be expelled and put forth, seeing that indeed the air is invisible, by reason of its rarity and thinness?

A. Because the air which is received in us, is mingled with vapours and fumosity of the heart, by reason whereof it is made thick,

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thick, and so is seen. And this is proved by experience, because that in Winter we see our breath, because the coldness of the air doth bind the breath mixed with fumosities, and so it is thickened and made gross, and by consequence it is seen.

Q. Why have some men sinking breath?

A. The answer is, according to the Physitians, because there do arise evil fumes from the stomach; and sometimes it doth proceed from the corruption of the airy parts of the body, as of the lungs. And the breath of Lepers is so infected, that it doth poyson the birds that are near them; because the inward parts are very corrupt, as appears by *Const. de sin.* because Leprosie is a nourishment of all the parts of the body, together with a corrupting of them; and it doth begin in the blood, and exterior members of the body.

Q. Why be Lepers hoarse?

A. Because that in them the instruments vocal are corrupted, that is, the Lights.

Q. Why do men become hoarse?

A. Because of the rhume descending from the brain, filling the conduit of the lights; or sometimes through some imposthumes in the throat, or rhume gathering in the neck.

Q. Why have females of all living Creatures the shrillest voice, a Crow only excepted, and a woman shriller than a man, and smaller?

A. According to *Arist.* by reason of the composition of the veins and vocal arteries, that is, when the air enters in; by which veins and arteries the voice is formed, as appears by a similitude, because a small pipe sounds shriller than a great. And also in women, because the passage where the voice is formed, is made narrow and strait by reason of cold, it being the nature of cold to bind; but in men that passage is open and wider through heat, because it is the property of heat to open and dissolve. And it proceedeth in women through the moistness of the lungs, and weakness of heat. Young men, and diseased have sharp and shrill voices for the same cause. And this is the natural cause why a Man-child at his birth-time doth cry *a, i*, which is a bigger sound, and the female *e*, which is a slender sound; as it pleaseth *Libertinus*, when he saith, *Masculus a profert.*

Q. Why

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Q. Why doth the voice change in men and women? in men at 14, in women at 12; in men when they begin to yield seed, in women when breasts begin to grow, as Arist. says, L. de Animal.

A. Because then, saith Aristotle, the beginning of the voice is slackned and loosned; and he proves this by a similitude of a string of an Instrument let down or loosened, which gives a great sound. He proves it another way, because Creatures which are gelded, as Eunuchs, Capons, &c. have softer and slenderer voices than others, by reason that they want stones.

A. The answer according to Aristotle is, because a Wolf is a very cold beast in the brain, and thereupon hath a very heavy head; if then the spirit of the sight or beam be directed, and go towards the Wolf, it doth draw some coldness from him to the breast, and then of that coldness the breast is straitned, where the instruments are by which the voice is formed, because the Wolf cannot send out any other fumosities; and they being breathed out into the air, the air next to him is infected, and the next air by that air, and so another air, until it come to the man; and so it makes him hoarse by closing the vocal artery or Wind-pipe. And it hath been already said, that a Wolf is a very ravenous and devouring beast, and doth eat as much at once as will serve him for three days; and therefore by opening his mouth doth cast forth raw and gross humors undigested, by which the next air to him is infected; and so the next to it, until it come to the looker on; so doth infect like the Basilisk, which casteth forth venomous airs, and infect men by the eyes.

Q. Why is not a Wolf hoarse when a man looks on him?

A. Because a man is not so cold as a Wolf, nor of so malignant a quality. And for the like reason this problem is moved.

Q. Why doth Man which is slain bleed when he is seen of him who killed him?

A. This proceedeth of divine cause, and not of a natural; because his blood calleth for vengeance against the murderer; but if there be any natural cause of it, it's this: the committer of this wicked fact calling to mind, is very sorry for it, and repents him of it, and is in anguish of mind, and in a great heat, through the strong imagination he hath conceived,

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ceived, and by that means all his spirits do stir and boil, and repair into the instrument of the sight, and so go out by the beams of the sight of the eyes, unto the wounds which are made, which if they be fresh, do presently fall a bleeding. Secondly, This is done by help of the air which breathed in, which being drawn from the wound, caused it to bleed.

Q. Why doth the small Birds sing more and louder than great ones, as appeareth in the Lark and Nightingale?

A. Because the spirits of small Birds are subtil and soft, and the Organ-conduit strait, as appeareth in a Pipe, and therefore follow easily any desire, and so do sing very soft.

Q. Why doth the Male sing more than the Female, as it appeareth in all living Creatures?

A. It proceedeth from the desire of Carnal Copulation, because that then the spirits are moved throughout all the body with the foresaid appetite and desire. And, speaking generally, the Females are colder than the Males.

Q. Why do Bees, Wasps, Flies, Locusts, and many other such like beasts make a noise, seeing they have no lungs, nor instruments of the voice?

A. According unto *Aristotle*, there is in them a certain small skin, which when the air, doth strike, it causeth the sound, and there is a strange sound.

Q. Why do not fish make a sound.

A. Because, that according unto *Aristotle* they have no Lights, but only Gills, nor yet a heart; and therefore they need not the drawing-in of the air, and by consequence they make no noise, because that (as says *Aristotle*) a voice is a percussion of the air which is drawn

Of the Neck.

Q. VVVhy hath a living Creature a Neck?

A. Because the Neck is the supporter of the head, as *Aristotle* teacheth; and therefore the Neck is the middle between the head and the body, to the intent that by it, and by its sinews, as by certain means and ways, motion and sense of the body might be conveyed throughout all the body; and that by means of the neck, as it were by a distance,

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stance, the heart, which is very hot, might be separated from the brain.

Q. Why do some Beasts want necks, as Serpents and Fishes?

A. Because such Beasts want a heart, and therefore they do want that distance which we have spoken of : or else we answer, they have a neck in some inward part of them, but it's not distinguish'd outwardly from the heart to the head.

Q. Why is the Neck full of bones and joynts?

A. Because it may bear and sustain the head the stronger. And also, because the back-bone is joynted to the brain in the neck, and from thence it receiveth marrow, which is of the same substance with the brain.

Q. Why have some Beasts long Necks, as Cranes, Storks, and such like?

A. Because such Beasts do seek their living in the bottom of the water, and therefore have such necks ; and some beasts have short necks, as Sparrow-hawks, &c. because such are ravenous beasts, and therefore for strength have short necks ; as appeareth in the Oxe, which hath a short neck, and therefore strong.

Q. Why is the Neck hollow, and especially before, about the tongue?

A. Because there be two passages, whereof the one doth carry the meat unto the nutritive instrument, as to the stomach and liver, and is called of the Greeks *Oesophagus* ; and the other is the Wind-pipe.

Q. Why is the Artery made with rings and circles?

A. The better to bow, and give a good sounding again.

Q. Why doth a Chicken move a good space after his head is off, and a man beheaded never stirreth?

A. Because a Chicken, and such like, have streight sinews and Arteries, and therefore the spirit of moving continueth long after the head is off : but Men, and many Beasts, have long and large sinews and Arteries, and therefore the morive spirits do quickly depart from them, and so by consequence cannot move their bodies.

The PROBLEMS

Of the Shoulders and Arms.

Q **VV** *Hy hath a man Shoulders and Arms?*

A. To give and carry burdens, according to *Arist.*

Q. *Why are his Arms round?*

A. For the swifter and speedier work, because that Figure is fittest to move.

Q. *Why are his Arms thick?*

A. Because they should be strong to lift and bear burthens, to thrust and give a strong blow: so their bones are thick, because they contain much marrow, for fear they should be easily corrupted, and marred; but marrow cannot so well be contained in small bones, as in great.

Q. *Why do such as are diseased, and in grief, uncover and cover their Arms; and such also as are in an agony?*

A. Because such are near unto death; and it is a sign of death, by reason of great grief, which causeth that uncovering, as *Hippocrates* doth teach, *lib. Prognost.*

Q. *Why doth the Arms become small and slender in some sickness, as in mad-men, and such as are sick of the Dropsie?*

A. Because all the parts of the body do suffer the one with the other; and therefore one member being in grief, all the humours do concur and run thither, to give succour and help to the aforesaid grief, For when the head doth ach, all humours of the Arms do run to the Head; and therefore the Arms become small and slender, because they want their proper nutriment.

Q. *Why have brut Beasts no Arms?*

A. Their fore-feet are instead of Arms, and in their place. Or else we may answer more fully, because all Beasts have some parts of their defence, and to fight with; as the Wolf his Teeth, the Cow her Horn, the Horse his hinder feet, Birds their Beak and Wings, but only Man hath his Arms.

Of the Hands.

Q **VV** *Hy hath a Man Hands, and an Ape also, which is like unto a Man?*

A. The

of ARISTOTLE.

A. The hand is an instrument which a man doth especially make use of, because many things are done by the hands, and not by any other-part, as *Aristotle* doth teach.

Q. Why are some men Ambo-dexter, that is, using the left hand as well as the right?

A. By reason of the great heat of the heart, and for the hot bowing of the same; for that is it which maketh a man as nimble of the left hand as of the right; and without doubt such are of good complexion.

Q. Why are not women Ambo-dexter as well as men? *Hip. ult. part. Aphoris.*

A. Because, as *Galen* saith, a women in health that is most hot, is colder than the coldest man in health: I say, in health; for if she have an Ague, she is accidentally hotter than a man.

Q. Why are the fingers full of joynts?

A. To be more fit and apt to receive, and keep the things received.

Q. Why hath every finger three joynts, and the thumb but two?

A. The thumb hath three, but the third is joyned unto the arm, and therefore is stronger than the other fingers; and is bigger in strength, seeing it is also in quantity; and is called *Pollux à Pillea*, that is, to excell in strength.

Q. Why are the fingers of the right hand more nimble than the fingers of the left, as *Aegidius* saith?

A. It proceedeth from the heat which doth predominate in those parts, which causeth great agility.

Q. Why are the fingers thicker before meat than after? as *Albertus* saith.

A. According to the Physicians, because a man which is fasting is full of bad humors, and divers fumosities, which puff up the parts of the body, and the fingers also; but when those humors are expelled through meat, the fingers become more slender. And for the same reason a man which is fasting is heavier than when he hath meat in his belly, as is most plain in fasters. Another reason may be given, that is, because that after meat, the heat departed from the outward parts of the body unto the inward, to help digestion; and therefore the outward and external parts become slender: but after the digestion is made, the blood runneth again to the exterior parts, and then they become great again.

The PROBLEMS

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A. Because such are near unto death; and it is a sign of death, by reason of great grief, which causeth that uncovering, as *Hippocrates* doth teach, *lib. Prognost.*

Q. *Why doth the Arms become small and slender in some sickness, as in mad-men, and such as are sick of the Dropsie?*

A. Because all the parts of the body do suffer the one with the other; and therefore one member being in grief, all the humours do concur and run thither, to give succour and help to the aforesaid grief, For when the head doth ach, all humours of the Arms do run to the Head; and therefore the Arms become small and slender, because they want their proper nutriment.

Q. *Why have bruit Beasts no Arms?*

A. Their fore-feet are instead of Arms, and in their place. Or else we may answer more fitly, because all Beasts have some parts of their defence, and to fight with; as the Wolf his Teeth, the Cow her Horn, the Horse his hinder feet, Birds their Beak and Wings, but only Man hath his Arms.

Of the Hands.

Q. **VV** *Hy hath a Man Hands, and an Ape also, which is like unto a Man?*

A. The

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A. The hand is an instrument which a man doth especially make use of, because many things are done by the hands, and not by any other-part, as *Aristotle* doth teach.

Q. Why are some men Ambo dexter, that is, using the left hand as well as the right?

A. By reason of the great heat of the heart, and for the hot bowing of the same; for that is it which maketh a man as nimble of the left hand as of the right; and without doubt such are of good complexion.

Q. Why are not women Ambo-dexter as well as men? *Hip. ult. part. Aphorif.*

A. Because, as *Galen* saith, a women in health that is most hot, is colder than the coldest man in health: I say, in health; for if she have an Ague, she is accidentally hotter than a man.

Q. Why are the fingers full of joynts?

A. To be more fit and apt to receive, and keep the things received.

Q. Why hath every finger three joynts, and the thumb but two?

A. The thumb hath three, but the third is joyned unto the arm, and therefore is stronger than the other fingers; and is bigger in strength, seeing it is also in quantity; and is called *Pollux à Pillea*, that is, to excell in strength.

Q. Why are the fingers of the right hand more nimble than the fingers of the left, as *Ægidius* saith?

A. It proceedeth from the heat which doth predominate in those parts, which causeth great agility.

Q. Why are the fingers thicker before meat than after? as *Albertus* saith.

A. According to the Physicians, because a man which is fasting is full of bad humors, and divers fumosities, which puff up the parts of the body, and the fingers also; but when those humors are expulsed through meat, the fingers become more slender. And for the same reason a man which is fasting is heavier than when he hath meat in his belly, as is most plain in fasters. Another reason may be given, that is, because that after meat, the heat departed from the outward parts of the body unto the inward, to help digestion; and therefore the outward and external parts become slender: but after the digestion is made, the blood runneth again to the exterior parts, and then they become great again.

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Q. Why

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Q. Why are some men left-banded?

A. Because the heart sendeth out heat unto the right sides but more unto the left; and doth also work a slenderness and subtilty in the left side.

Of the Nails.

Q. From whence doth the Nails proceed?

A. Of the fumosity and humors, which are resolved, and go into the extremities of the fingers; and there are dried through the power of the external air, and brought to the hardness of a horn.

Q. Why do the Nails of old men grow black and pale?

A. Because the heat of the heart decayeth, which decaying, their beauty decayeth also.

Q. Why are men judged to be of good or evil complexion by the disposition of their Nails?

A. Because they give witness of the goodness or badness of the heart, and therefore of the complexion: for if they be somewhat red, they betoken choler well tempered; but if they be inclined to red, somewhat to blackness, they betoken a sanguine complexion: but if they be yellowish or black, they signifie melancholy.

Q. Why do white spots appear in the Nails?

A. Through the mixture of flegm with the nutriment.

Of the Breast.

Q. Why is the Breast hollow?

A. Because there is the seat of the spiritual and aerial members, which are most noble, as the Heart and Lights; and therefore because these might be kept from hurt, it was necessary the breast should be hollow.

Q. Why hath a man the broadest breast of all living creatures?

A. Because the spirits of man are weak and subtil, and therefore do require a spacious place wherein they are contained, as the breast is.

Q. Why are the Breasts of Beasts round?

A. Because they be in continual motion, and that figure is fittest for motion, as Aristotle saith. 4. Phys.

Q. Why do we draw those things we love unto our breasts?

A. Be-

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A. Because the first and chiefest part of the heart is under the breast; and therefore that which the heart doth love, we draw to the Breast, by reason of the neighbourhood it hath with the heart, so applying the thing loved unto the lover.

Q. *Why have women narrower breasts than men?*

A. Because there's more heat in men, which doth naturally move to the uppermost parts of them, making those parts great and large; and therefore a great breast is a token of courage, as Aristotle saith, declaring this to be true by the Lion and Bull: But in Women cold predominates, which naturally tends downward; and therefore saith Aristotle. women oft fall on their tail, because the hinder parts are gross and heavy, by reason of cold descending thither: but a Man commonly falls on his breast, by reason of his greatness and thickness.

Of the Paps and Dugs.

Q. *Why are Paps placed upon the Breasts?*

A. Because the breast is the seat of the heart, which is most hot; and therefore the Paps grow there, to the end that the flowers being conveyed thither as being near to the heat of the heart, should the sooner be digested and perfected, and converted into the matter and substance of milk.

Q. *Why are the Paps below the breasts in Beasts, and above the breasts in women?*

A. Because a Woman goeth upright, and hath two legs only; and therefore if her Paps should be below her breasts, they would hinder her going: but beasts have four feet, and there they are not hindered in their going.

Q. *Why have not Men as great Paps and Breasts as Women?*

A. Because a man hath no monthly terms, and therefore hath no Vessel depured for them. And yet Aristotle saith, that Men have small Paps, and Women have little small stones.

Q. *Which Paps are best for Children to suck, great ones or little ones, or the mean between both?*

A. In great ones the heat is dispersed, and there is no good digestion of the milk; but in small ones the power and force is strong; because a virtue united is strongest, and by conse-

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quence there is good working and digestion of the Milk ; and therefore the small are better than the great ones ; but yet mean ones are the best of all, because every man is best.

Q. Why do the Paps of young Women begin to grow great about thirteen or fourteen years of age, as Albertus saith?

A. Because that then their Terms begin to have course, and increase ; and as *Aristotle* saith, Mens Seed and Womens Flowers begin to increase at one age.

Q. Why do the Paps of such Women, as cast their Child wax soft, as Hippocrates saith. Part 2. Aphor.

A. Because then the Flowers have no course to the Teats, by which the young one is nourished, but follow their ordinary course ; and therefore they wax soft.

Q. Why hath a woman which is with child of a Boy, the right Pap harder than the left?

A. Because the Male-child is conceived in the right side of the Mother, as *Hippocrates* saith ; and therefore the Flowers do run to the right Pap, and make it hard.

Q. Why doth it shew weakness of the Child, when the Milk doth drop out of the Paps before the woman be delivered?

A. According to *Aristotle*, because the Milk is the proper nutriment of the Child in the Womb of the Mother ; and therefore if the Milk run out, it is a token that the Child is not nourished ; and therefore is weak.

Q. Why doth the hardness of the Paps, betoken the health of the Child in the Womb?

A. Because the Flowers are converted into Milk, and that Milk doth sufficiently nourish the Child, and thereby the strength is signified.

Q. Why hath a woman but two Paps, and some brut Beasts ten, or more?

A. Because, for the most part, a woman hath but one Child either boy or girl, and therefore one Pap is sufficient, or two ; but Beasts having many young ones, therefore so many Teats.

Q. Why be womens Paps hard when they be with Child, and soft at other times?

A. They swell then, and are puffed up, because the much moisture which proceedeth from the Flowers, doth run into the Paps, which at other seasons remaineth in the Matrix or Womb

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Womb, and is expelled by the place deputed for that end.

Q. By what means doth the Milk of the Paps come to the Matrix or Womb?

A. According to Hippocrates, because there is a certain knitting and coupling of the Paps with the Womb, and there are certain Veins which the Midwives do cut in the time of the Birth of the Child, and by whose Veins the Milk doth flow in at the Navel of the Children, and so they receive nutriment by the Navel. Some say the Child in the womb is nourished at the mouth, but that is false, because that so he should void Excrements also: but that is false, because it is not seen where.

Q. Why is it a sign of a Male-child in the Womb, when the Milk that runneth out of the womans Breast is thick, and not much; and of a Female when it is thin?

A. Because a woman that goerh with a Boy hath great heat in her, which doth perfect the Milk, and make it thicker; but such as go with a Wench have not so much heat, and therefore the Milk is undigested, and unperfected, and watry, and thin, and will swim above the water if it be put into it.

Q. Why is the Milk white, seeing the Flowers are red which it is ingendred of?

A. Because Blood which is well purged and concocted, becometh white, as appeareth in Flesh, whose proper colour is red, and being well boiled is white. Another answer is because every humour which is ingendred of such a part of the body, is made like unto that part in colour where it is ingendred, as near as it can be: but because the flesh of the Paps is white, therefore the colour of the Milk is white.

Q. Why doth a Cow give Milk more abundantly than other Beasts?

A. Because she is a great eating Beast; and where is much Monthly Superfluity ingendred, there is much Milk, because it is nothing else but that Blood purged and tryed; and because a Cow hath much of this Monthly Blood, she hath much Milk.

Q. Why is not Milk wholesome, as Hippocrates saith, Part 2. Aph.

A. According to the Opinion of Galen, for divers reasons.

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First, because it doth curd in the stomach, whereof an evil breath is bred. But to this *Hippocrates* gives this remedy, saying if the third part of it be mingled with running water, then it is not hurtful. Another reason is, because sometimes the milk doth wax sour in the stomach, and boil till it be dry, whereof evil humors are bred, which do infect the breath.

Q. Why is Milk naught for such as have the Head-ach?

A. Because Milk is easily turned into great fumosities, and hath much terrestrial substance in it; the which fumosities, ascending, doth cause the head to ach.

Q. Why is Milk a fit nutriment for Children and Infants?

A. Because it is a natural and usual food; and because they were nourished by the same in the Womb of the Mother, it is fit for them.

Q. Why are the white meats made of a new Milch-cow, good?

A. Because the Milk at that time is very spongy, and doth expel many fumosities, and doth, as it were, purge at that time.

Q. Why is the Milk naught for the Child, if the woman uses Carnal Copulation?

A. Because in time of Carnal Copulation, the subtilest and best part of the Milk goeth to the Vessels of the seed, and to the Womb, and the worst remains in the Paps, which doth hurt the Child?

Q. Why is the Milk of brown women better than of white?

A. Because brown women are hotter than others, and because the heat doth purge the milk sufficiently, and so the milk is the better.

Q. Why do Physitians forbid us to eat Fish and Milk at the same Meal?

A. Because they do dispose us to a Leprosie, and because they are both flegmatick.

Q. Why have not Birds and Fish Milk and Paps?

A. Because Paps would hinder the flying of the Birds. And Fish also have neither Paps nor Milk, as *Arist.* saith, but the Female casts much Spawn, on which the Male touches with a small gut, which causes their kind to be infinite in succession.

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Of Backs.

Q *Why have Beasts Backs?*

A. According to *Arist.* for three causes. First, because the back should be the way and mean of body from which are extended and spread throughout all the sinews the back-bone, as it appears in such as are hang'd, because when they are torn in pieces, or without flesh, the sinews hang whole in the chine or back-bone. The second, because it should be a guard and defence for the soft parts of the body, as of the stomach, liver, lights, and such like. The third, because it should be the foundation of all the bones, because we see other bones, as the ribs, fastened to the back-bone.

Q. *Why hath Man, above all other Creatures, a broad back which he can lye upon, which no beast can do?*

A. Because a broad back doth answer a broad breast: If therefore a man should have a sharp back like unto a beast, that would be of an unseemly shape; and therefore it is requisite that he have a broad back.

Q. *Why hath man that lyeth on his back horrible Visions?*

A. Because the passage or sign of the fantasie is open, which is in the fore-part of the brain, and so the fantasie is destroyed, and then those Visions follow. Another reason is, because when a man lieth on his back, the humors are disturb'd and mov'd upward where the Fantasie is, which by that means is disturb'd.

Q. *Why is it naught to lye on the back?*

A. Because as the Physicians say, it disposes a man to Le-prosie, Madness, and to an *Incubus*, where you may note, that *Mania*, or madness, is the hurt or disturbance of the fore-part of the brain, with taking away, or depravation of the Imagination: but *Incubus*, that is, the Night-mare, is a passion of the heart, when a man thinks himself to be strangled in his sleep, and somewhat lies heavy on his stomach which he would put off.

Q. *Why hath the back-bone as many joynts and knots, called Spondelia by the Physicians?*

A. For the moving of the back, and bowing of it, without which joynts that could not be done; and therefore they say

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amiss, which say that Elephants have no such joynts ; for without them they could not move.

Q. *Why do Fish die presently after their back-bone is burst?*

A. Because in Fish the Back-bone is instead of the Heart. Now the Heart is the first thing that liveth and the last that dieth, as appears in the book *de long. & brev. vitæ.* and therefore when this bone is broken, Fish can live no longer.

Of the Marrow.

Q. **V***Hy doth a Man die quickly after the Marrow is hurt or perished?*

A. Because the Marrow proceeds from the Brain, which is a principal part of Man, as appears in two reasons: First, because the Marrow is white, like unto the Brain: Then because they have a small Skin or Rind, which that which is called *Nucha* hath not, which somewhat differeth from the Marrow, because that *Nucha* hath two coverings like the Brain called *Pia Mater*, and *Dura Mater*.

Of the Piles, or Flux of Blood in the Fundament.

Q. **W***Hy have some men Piles?*

A. Because they are cold and melancholy, which melancholy first passeth to the Spleen, which is the proper seat of melancholy, and there cannot be retained through abundance of blood; and therefore from thence it is carried to the back-bone, where there are certain veins which have their end in the back, the which do receive the blood: and when those veins are full of melancholy blood, then the ways and Conduits of Nature are opened, and the blood issueth out once a Month like a Womans Terms and Flowers. And those men which have this course of blood, are kept from many infirmities; as the Dropsie, Plague, and suchlike.

Q. *Why are the Jews subject to this disease very much?*

A. The Divines say, because they cried at the death of Christ, *Let his Blood fall upon us and our Children.* And therefore it is said in the Psalm, *Percussit eos Deus in posteriara dorsi.* Another reason is, because the Jews do eat much flegmatick and cold meats, which do breed melancholy blood, which is purged by the flux of blood. Another reason is, because mov-
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moving doth cause heat, and heat digestion, as in a *Meteor*; but the Jews do not move, nor labour, nor converse with men. Also they live in great fear, lest we should revenge the death of our Saviour, which doth also breed a coldness in them, and hinders digestion; and breeds much melancholy blood in them, which is by this means purged.

Of the Heart.

Q. **W**hy are the Heart and Lungs called lively parts of the body, in Latin, *Spiritualia membra*?

A. From this word *spiritus*, which signifies breath, life, or soul; and because the vital spirits are ingendred in the heart. But that's no good answer, for the Liver and Brain might be so called, which is false, because the liver is a part which giveth nutriture, and the Brain, sense and life: And yet the consequence is clear, because the vital spirits are ingendred in the liver, and the sensible and animal spirits in the brain: And therefore the answer is, because that in the heart, and in the lungs, breath and air is received, by which we live.

Q. Why are the Lungs thin and spongy, light and full of small holes?

A. Because the air might the better be received in them for cooling the heart, and expelling superfluous humors, because the Lungs are the Fan of the Heart: and as a pair of Bellows is puffed up by taking in the air, and shrinketh by blowing it out; so likewise the lights do draw the air when they cool the heart, and cast it out, lest through too much heat of the air drawn in, the heart should be suffocated.

Q. Why is the flesh of the Lungs white?

A. Because they be in continual motion.

Q. Why have those Beasts only Lungs which have Hearts?

A. Because the Lungs be no part for themselves, but for another; that is, for the heart: and therefore it were superfluous for those beasts to have Lungs which have no hearts; but Nature never wanteth in things necessary, nor aboundeth in superfluities.

Q. Why do such creatures as have no Lungs want a Bladder?

A. Because such drink no water, to the end to make their meat

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meat to boil, or to help digestion, but only for the tempering of their meat, and therefore they want a bladder and urine, as it appears in such birds as do not drink at all, as the Falcon, and Sparrow-hawk.

Q. Why is the heart in the midst of the Body?

A. Because it should impart life unto all the Parts of the body: and therefore 'tis compared to the Sun, which is placed in the middle of the Planets, to pour light into them all. And therefore the *Pythagoreans* calling the Heavens a great living Creature, say, that the Sun is the heart of it.

Q. Why only in man is the heart placed on the left side?

A. To the end that the heat of the heart should mitigate the coldness of the spleen; for the spleen is the seat of melancholy, which is seated on the left side likewise.

Q. Why is the heart first ingendred: For, according to Aristotle, the heart doth first live, and last die?

A. Because as *Arist.* saith, *de juvent. & senect.* the heart is the beginning and original of life, and of all the parts of the body, and without it no part can live. Note, according to the Philosopher, that of the seed retained in the Matrix or Womb there is first ingendred a certain little small skin, which doth compass the seed, whereof first the heart is made of the purest blood; then of a blood not so pure, the liver; and of thick and cold blood, the marrow and the brain.

Q. Why are such beasts bold that have a little heart, as the Lion?

A. Because that in a little heart the heat is well united, and vehement, and the blood touching it doth quickly heat it, and is speedily carried unto the other parts of the body, which giveth courage and boldness.

Q. Why are such beasts as have a great heart fearful, as the Hare?

A. Because the heat is dispersed in such a one, and it's not able to heat the blood which cometh to it, and so fear is bred.

Q. Why is the heart continually moving?

A. According to *Arist. de motu cordis*, and *Galen*, because that in it there is a certain spirit which is more subtil than the Air; which by reason of its great thickness and rarefaction,

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saction, does seek a larger space, filling the hollow room of the heart, whereof the dilating and opening of the heart doth follow. And because the heart is earthly, the thrusting and moving ceasing, his parts are at rest, and tend downwards. And *Galen* giveth an experiment of an Acorn, which if it be put into the fire, the heat doth dissolve its humidity into smoak, which is thinner and greater than the humidity, and therefore doth occupy a greater place, and so cannot abide in the rinde, but doth puff it up, and cause it to fall in the fire. The like is of the heart; and therefore note, that the heart of a living creature is triangular after a sort and hath the least part toward the left side, and the greatest part towards the right, and doth also open and shut in the least part, and by that means is in continual moving. The first moving is by the Physician called *Diastole*, that is, the extending of the breast or heart. The second *Systole*, that is, the shutting of the heart; and of these two movings all the movings of the body do proceed, and the moving of the Pulse, which the Physicians do feel.

Q. Why are great beasts lean?

A. Because the natural heat proceeding from the heart, doth consume the natural humidity, which should be converted into fat. And for the most part Women are hotter then Men, because they have much humidity in them, and have a moister heart than Men.

Q. Why is the flesh of the heart so compact and knit together?

A. Because in a thick compacted substance heat is strongly received and united, as appears in other things. And because the heart with its heat should moderate the coldness of the brain, it's made of that fat flesh, apt to keep a strong heat.

Q. Why is the heart the hottest part of all living Creatures?

A. Because it's so compacted as it receives heat best, and because it should mitigate the coldness of the brain, as is said.

Q. Why is the heart the beginning of life?

A. Because that in it the vital spirit is bred, which is the heat of life; and therefore according to the opinion of *August. de. differen. spirit. & anime*, the heart hath two bellies, or receptacles, that is, the right, and the left: the right hath

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hath more blood than spirit, the which spirit is ingendred to give life, all vivificate the body.

Q. Why is the heart long, and of the figure of a Pyramid, long and sharp?

A. The round figure hath no Angles; and therefore the Heart is round, for fear lest any poyson or hurtful matter should be kept and retained in it. And also, as *Aristotle* affirms, because the round figure is fittest for motion.

Q. Why is the blood principally in the Heart above other parts?

A. Because the Blood is in the Heart as in its proper place, or in its efficient place, which some do attribute to the Liver: And therefore the Heart; doth not receive Blood of any other parts, but other parts of it.

Q. Why do some Creatures want a Heart?

A. Although they have no Heart, yet they have somewhat that answereth to the Heart; as appears in Fish and Eeles, which have the back-bone instead of the Heart.

Q. Why doth the Heart beat, and live in some Creatures when the Head is off, as it appears in Birds and Hens?

A. Because the vital spirits remain longest in the Heart, because the Heart is that which is first alive, and last dead, as *Aristotle* doth say; and therefore the Heart doth beat more than other parts.

Q. Why do all creatures which want a Heart, or somewhat proportionable to it, want blood also? as it doth appear in Flies.

A. The Heart is the beginning of the blood; and therefore the cause failing, the effect ceaseth.

Q. Why is the Pulse of the Heart more certainly judged in the right side than the Left?

A. Because the heat of the Heart is more lively there than in the other side; and therefore it is better felt there than in the other side.

Q. Why doth the heat of the heart sometimes fail on a sudden, as in those who have the falling-sickness?

A. This proceedeth, according to Constant. through the defect of the Heart it self, and of certain small Skins with which it is covered, the which being infected and corrupted, the Heart faileth on a sudden; and sometimes it doth happen by reason of the parts next adjoyning. And therefore
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when any venomous humor doth go out of the Mouth of the Stomach, that doth hurt the Heart, and the parts adjoyning, the which doth also cause this fainting. Note, according to Aristotle, that the disposition of the Heart is known by the Pulse of the heart, because a swift beating Pulse doth give a witness of the heat of the Heart, and of a good Complexion; a slow and weak pulse doth betoken the coldness of the Heart, and evil Complexion. And therefore a woman that is in health, hath a slower and weaker pulse than a man, as shall appear hereafter.

Of the Stomach.

Q. **V**^Vhy is the Stomach large and wide?

A. Because that in the Stomach the meat is first concocted and digested, as it were in a Pot, to the end that that which is pure should be separated from that which is Impure, as Aristotle saith; and therefore according to the quantity of the Meat, the Stomach is enlarged.

Q. Why is the Stomach round?

A. Because if it had Angles and Corners, as Const. saith, Meat would remain in them, and breed ill humors, and a man should never want Agues; the which humours nevertheless are evacuated, lifted up, and consumed, and are not hidden in any such Corners, by reason of the roundness of the Stomach.

Q. Why is the Stomach full of Sinews and feeling?

A. As Aristotle saith, because the Sinews can be extended and enlarged, and so is the Stomach when it is full: and when it is hungry, it is drawn together; and therefore Nature doth provide those Sinews.

Q. Why doth the Stomach digest?

A. Because of the heat which is in him, which cometh from the parts adjoyning; that is, the Liver and the Heart. For we see in Metals, and the heat of the fire doth take away the Rust and Dross from the Iron, and Silver from Tin, and Gold from Copper; and so by Digestion the pure is separated from the impure. And digestion is of four sorts, according to the Physicians.

Q. Why is the Stomach joyned to the Liver?

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A. Because saith *Constant*, the liver is very hot; and with its heat doth help digestion, and doth compass the stomach.

Q. Why are we commonly colder after dinner than before?

A. Because then the heat goeth to the stomach to further digestion, and so the outward parts be cold, being deprived of heat.

Q. Why is it hurtful to study presently after dinner?

A. Because when the heat doth labour to help the imagination in study, then it ceaseth from digesting the meat, and so the meat remaineth raw. And therefore according to the Physicians, a man should walk sometime after dinner.

Q. Why have women with child an inordinate appetite of eating of Coals, Ashes, and such like?

A. Because that such as are the humors of the Stomach, such a nutriment they desire: and because women with child have corrupted humors, therefore they desire such things, because like doth cover its like.

Q. Why doth the stomach slowly digest very fat meats?

A. Because such meats swim in the stomach. Now the best digestion is in the bottom of the stomach, where fat meat cometh not: therefore such as eat fat meat are very sleepy after the eating of it, because their digestion is hindred.

Q. Why is all the body worse when the Stomach is ill at ease?

A. Because the stomach is knit with the brain, heart, and liver, which are the principal parts in man; and therefore when it is not well, the other are evilly disposed. Another answer is, that if the first digestion be hindred, the others are also hindred: for in the first digestion is the beginning of the infirmity that is in the stomach.

Q. Why are young men sooner and hungrier than old men?

A. Young men do digest for three causes, First, for growing, then for restoring of life; and lastly, for conversation of the life, as *Hippocrates* and *Galen* do say. Else we answer, that young men are hotter than old men, because young men are hot and dry, and therefore the heat doth digest more; and by consequence they desire more.

Q. Why do Physicians prescribe, that men should eat when they have an appetite?

A. Because much hunger and emptiness will fill the stomach

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mach with naughty rotten humors, which he draws unto himself instead of meat; which do easily appear, because that if we fast over-night, we have an appetite to meat, but in the morning none. That's therefore a token that the stomach is filled with naughty humors, and especially its mouth, which is no true filling, but a deceitful. And therefore after we have eaten little, our stomach comes to us again; and then the Proverb is, *One morsel draweth down another*; for the first morsel having made clean the mouth of the stomach, doth provoke the appetite.

Q. Why do Physicians prescribe that we should not eat too much at a time, but by little and little?

A. Because when the stomach is full, the meat doth swim in it, which is a dangerous thing. Another reason is, that as very green wood doth put out the fire, so, much meat choaks the natural heat, and puts it out. And therefore the best Physick is, to use temperance in eating and drinking.

Q. Why do we desire change of meats, according to the change of times; as in Winter, Beef, Pork, Mutton; in Summer light meats, as Veal, Lamb, &c.

A. Because the complexion of the body is alter'd and changed according to the time of the year. Another answer is, that this proceeds from the quality of the season, because the cold of Winter doth cause a better digestion, because the stomach and belly is hotter in Winter, by reason of the compassing cold, as Hippocrates and Aristotle doth teach.

Q. Why the meat we eat should not be too hot, as Pepper, and Ginger?

A. Because hot meat doth burn the blood, and disposeth to a Leprosie. So contrariwise, meat too cold doth mortifie and congeal the blood. And our meat should not be over-sharp, because it procureth old age; and too much Sauce doth burn the Intraills, and procureth often drinking, as raw meat doth; and over-sweet meats do constipate and cling the Veins together.

Q. Why is it a good custom to eat Cheese after dinner, and Pears after all meat?

A. Because Cheese by reason of its earthliness and thickness, tendeth down toward the bottom of the stomach, and
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so putteth down the meat, and the like of Pears. Note, that new Cheefe is better than old, and the old dry soft Cheefe is very naught, and procureth the head-ach, and stopping of the liver; and the older the worser, Whereupon it is said, that Cheefe is naught, and digesteth all things but it self.

Q. Why be Nuts good after Fish, as the Verse is?

After Fish, Nuts : after Flesh, Cheefe.

A. Because Fish is of a hard digestion, and doth easily putrifie and corrupt; and Nuts do help digestion, because they are somewhat hot : Fish is poysoned sometimes, and Nuts are a remedy against a poyson. And note, the Fish should be of a clear stony water, and not of a cold standing muddy water, and should be sod in Wine with Parsly, and so it hurteth least.

Q. Why is it unwholsome to stay long for one dish after another, and to eat of divers kinds of meat?

A. Because the first meat begins to digest when the last is eaten, and so the digestion is not equally made, and therefore the meat digested beynneth to corrupt. But yet this Rule is to be noted touching the order of meats, that if there be any Dishes, whereof some are light of digestion, as Chickens, Kid, Veal, soft Eggs, and such like, these meats should be first eaten; but the gross meats, as Venison, Bacon, Beef, roasted Pork, hard Eggs and fryed Eggs, should be eaten last. And the reason is, because that if they should be first served and eaten, and were digested, they should hinder the digestion of the others; and the light meats not digested should be corrupted in the stomach, and kept in the stomach violently, whereof there would follow belching, loathing, head-ach, belly-ach, and great thirst. And by consequence it is very hurtful too, at the same meal to eat Milk, and drink Wine, because they dispose a man to a Leprosie.

Q. Which is better for the stomach, meat or drink?

A. Drink is sooner digested than meat, because meat is of greater substance, and more material than drink, and therefore meat is harder to digest.

Q. Why is it good to drink at dinner?

A. Because the drink should make the meat readier to digest, For if a Pot be filled with Fish or Flesh without liquor, then

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then both the Pot and the Meat is marred. The Stomach is like unto a Pot which doth boil Meat, and therefore Physicians do counsel to drink at Meals.

Q. Why is it good to forbear a late Supper?

A. Because there is no moving or stirring after Supper, and so the Meat is not sent down to the bottom of the Stomach, but remaineth undigested, and so breeds hurt. And therefore a light and short Supper is best, as the old Verse doth shew.

Q. Why is it naught to drink Wine fasting?

A. Because it doth greatly endanger the Brain, and breed the Falling-sickness, and the Apoplexy.

Q. Why is it hurtful to drink much cold water?

A. Because one contrary doth hinder and expel another; but the water is very cold; and therefore coming unto the Stomach, both hinder the digestion, and the heat that doth digest.

Q. Why is it unwholesome to drink new Wine, and why doth it hurt the Stomach very much?

A. Because it cannot be digested; and therefore it causeth the belly to swell; and so it doth in some sort cause a Bloody-flux: It doth also hinder the making of water; but to drink good wine is wholesome.

Q. Why do the Physicians forbid us to labour presently after dinner?

A. For three causes. First, because moving doth hurt the vertue and power of Digestion, and by that means the Meat is expell'd undigested. The Second is, because stirring immediately after dinner, doth cause the parts of the body to draw the Meat raw to them, which doth breed sickness. The third, because moving doth cause the Meat to descend before it be digested: but after Supper it is good to stir and move, because we sleep not long after. And therefore we should walk a little, because the Meat may go to the bottom of the Stomach.

Q. Why is it good to walk in the Morning before Dinner?

A. Because it makes a man well disposed, fortifieth and strengtheneth the natural heat, and causeth the superfluity of the Stomach to descend; and therefore Avicen saith, that such

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as forgo this exercise, fall into the inflammation of the Heart.

Q. Why is it wholesom to Vomit, as some say?

A. Because it purgeth the stomach of all naughty humors: for it expelleth green and blew humors, which would breed Agues if they should remain in the Stomach. And according to *Avicen*, a Vomit purgeth the Eyes, the Head, and makes the Brain clear.

Q. Why doth Sleep greatly strengthen the Stomach, and the Digestive Virtue?

A. Because in sleep the heart draweth inward, and helpeth the Digestion; but when we awake, the heat remains about the Senses, and is dispersed throughout all the body.

Q. Why do some Men in some Diseases void their meat downward?

A. By reason of the weakness of the Natural Virtue, and Expulsion; which Disease is called *Lienteria*.

of the Blood.

Q. Why is it necessary that every living thing which hath Blood, have also a Liver?

A. According to *Aristotle*, because the blood is first made in the Liver; because the Liver is the seat of the blood, according to other Physicians; and is drawn from the Stomach by certain Principal Veins, and so ingendred.

Q. Why is the Blood red?

A. Because it is like to the part in which it was made, that is, unto the Liver, which is of a red colour. And the Blood is also sweet, because it is well digested and concocted; but if it have a little earthly matter mixed with it, it is a cause that it is somewhat salt, as it appeareth in *Arist. lib. Meteor.*

Q. Why have women thicker Blood than men?

A. By reason of the Cold which doth thicken, bind, and congeal, and joyn together.

Q. Why doth the Blood come to all the parts of the body from the Liver, and by what means?

A. By means of the Principal Veins, as of the veins of the Head, of the Liver, and such other, and to nourish all the body.

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Of the Urine.

Q. **H**ow doth the Urine come into the Bladder, seeing the Bladder is shut?

A. Some say by sweating, and it seemeth to be true; but others say it comes by a small Skin in the Bladder, which doth open and let in the Urine. *Theophylastus* saith, the Urine is a certain, and not a deceitful Messenger of the health and infirmity of Man. And *Hippocrates* saith, that men have white Urine in the morning, and before Dinner red, and after Dinner pale, and likewise after Supper, for there are diuers colours of Urine, whereof we will not speak at present

Q. Why doth the Leprosie proceed from the Liver?

A. Because (saith *Const.*) the digestive power in the Liver cannot convert the thick substance in the four humours, but it is converted only into water, which doth swell and puff up a Man, and especially the Belly.

Of the Gall.

Q. **VV**hy have all living creatures a Gall?

A. Because cholerick humors are received into it, which through their sharpness do help the Guts, to expel superfluities; it doth also help the Stomach in digestion.

Q. Why do the Jaundies proceed from the Gall?

A. Because the humor of the Gall is blewish and yellow; and therefore when the pores of the Gall are stopped, then that humor cannot go into the Sack or Bladder of the Gall, but is mingled with the Blood, wandring throughout all the Body, and infecting the Skin,

Q. Why hath not a Horse, a Mule, an Ass, and a Cow, a Gall?

A. *Aristotle* saith, that although those Beasts have no Gall in one place, as in Purse or Vessel, yet they have a Gall dispersed by some small veins.

Of the Spleen.

Q. **VV**hy is the Spleen black?

A. Because it is caused of a terrestrial and earthly matter, that is, of black substance, as *Aristotle* saith. Now the effect is like unto the cause. Another answer is ac-

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cording to the Physicians, because the Spleen is the Receptacle of Melancholy, and Melancholy is of a Black colour.

Q. Why is he a lean man which hath a great Spleen?

A. Because the Spleen doth draw much water unto it self, which would go into fat. And therefore contrariwise, men which have but a small Spleen are fat.

Q. Why doth the Spleen cause men to laugh, as Isidorus doth say, we laugh with the Spleen, we be angry with the Gall, we are wise with the Heart, we love with the Liver, we feel with the Brain, and speak with the Lungs; that is, the cause of laughing, anger, love, wisdom, speech, and feeling doth proceed from the Spleen, the Gall, the Liver, the Lungs, and the Brain?

A. The reason is, because the Spleen draweth much melancholy to it, being its proper seat; the which melancholy is caused of sadness, and is there consumed, and so the cause failing, the effect faileth. And that melancholy is the cause of sadness, appears in *Arist. Præm. de anima*; and therefore that being consumed in the Spleen, the contrary unto sadness follows, that is, joy and gladness. And for the same cause the Gall causeth anger: for cholorick men are angry, because they have much Gall. For the better understanding of this, note that there are four humors in Man; that is, blood, choler, flegm, and melancholy, wherefore each hath a special receptacle and place where it is received and kept. Of a dry and hot substance choler is ingendred, which goes unto the Gall, as to its seat and place. But of a cold and dry humour melancholy is ingendred, which runneth to the Spleen, as to its peculiar place and receptacle. But of a cold and moist humour flegm is bred, which goeth to the Lungs, as to its receptacle; or, as the Physicians say, unto the Spleen. But the blood, which is the most noble humor, is ingendred in the Liver, and there its proper place seemeth to be.

Of Carnal Copulation.

Q. Why do living creatures use Carnal Copulation?

A. Because it is the most natural work which is in living Creatures, to beget the like unto themselves in kind, and to continue the kind: For if Carnal Copulation were not, all kind of living Creatures had long before this time perished.

Q. What

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Q. What is this Carnal Copulation?

A. It is a mutual action of Male and Female, with instruments ordained and deputed for that act, to maintain the Kind. And therefore Divines say, it is a sin to use that Act for any end, but for begetting his like in kind.

Q. Why is this action good in those to whom it is lawful, if it be moderately taken?

A. Because, according to *Avicen* and *Const.* it doth ease and lighten the body, clear the mind, comfort the Head, and the Sence, and take away many griefs and melancholy, because it doth expel the fume of the Seed from the Brain, and it doth expel the matter of Imposthume. And therefore sometimes through the intermitting of this Act, the darkness of the sight doth ensue, and giddiness of the head. And therefore the Seed of a man retained above a due time, is converted into some infectious humor.

Q. Why is immoderate Carnal Copulation hurtful?

A. Because it doth destroy the sight, and dry the body; because, as *Aristotle* saith, *de gener. animal.* Letchery and Incontinency is the wasting of the pure Humidity, and doth consume the Brain; and it breeds sharp Feavers, as *Avicen* teacheth, and experience doth shew. And it shortens the life of man, as *Aristotle* saith, *de longit. & brev. vitæ.* And *Albertus* sheweth this in the Sparrow, which by reason of its oft coupling, liveth but three years.

Q. Why doth Carnal Copulation very much hurt to melancholy men, and cholerick men, and greatly to lean men?

A. Because it dries the bones very much, which are dry of themselves. And contrariwise, it is good for the flegmatick and sanguine, as *Avicen* said, because they abound with that substance which by nature is necessarily expelled. Although *Aristotle* affirms, that every fat Creature hath but small store of Seed, because the substance of it doth run into fatness.

Q. Why doth not the Female of brut Beasts covet Carnal Coppling after they be great with Young?

A. Because that then the Womb or Matrix is shut, and the Flowers cease, and therefore the desire to the act doth cease.

Q. Why should not the act be used when the body is full?

A. Because it hindreth digestion, as *Aristotle* saith: likewise

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it is not good for a hungry Belly, because it weakens him.

Q. Why is it not good after a Bath?

A. Because then the pores are open, and the heat dispersed throughout all the body; and therefore Carnal Copulation following a Bath, doth cool the body very much.

Q. Why is it not good after a Vomit, or looseness in the belly?

A. Because it is very perillous to purge twice in one day, as Hippocrates and Galen say; but so it is in this act of Carnality, and looseness in the Belly, because by this act the Reins and Kidneys are purged, and the Guts by the Vomit.

Q. Why are wild Beasts furious when they couple, as it appeareth in Asses which bray, and Harts which are almost mad, as Hippocrates doth say?

A. Because their blood is kindled with the desire of that Carnal act, and nature doth also labour to expel superfluities in them, which in the sense do dispose to anger and madness; and therefore the act done, they are tame and gentle.

Q. Why is there such delight in the act of Venery?

A. Because this act is a base and contemptible thing in it self, naught and unclean so far, that all Creatures would naturally abhor it, were there no pleasure in it; and so there would never be any Carnal Copulation, by reason of the uncleanness of it: And therefore in this delight Nature doth willingly practise it, to the end that all the kinds of living things should be maintained and kept.

Q. Why do such as use it oft, take less delight in it than those that come to it seldom;

A. For three causes. First, because the passage of the seed is over-large and wide, and therefore the seed makes no stay there; by which stay the delight is had. The second, because that through often going together, there's but little seed left, and therefore giveth no delight. Thirdly, because, such, instead of seed, cast out blood indigested and raw, or some other watry substance which is not hot, and therefore causeth no delight.

Q. Whether can this Carnal Copulation be done by the Mouth, so that Beasts may conceive thereby, as some say of Pigeons, which they say by Kissing do this act at the Mouth, and conceive? and some say this is true in the Weasel or Ermyne?

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A. According to *Aristotle* that is untrue. For although Pigeons do play by the Beak, yet they do not couple together this way, nor conceive. And because the Wessel doth bear his young ones from place to place in his mouth, they are of that opinion: and therefore *Aristotle* sheweth it thus, whatsoever goeth in at the mouth, is consumed by digestion; but if the seed should go in at the mouth, then that should also be consumed by digestion. The major part is plain, not is it no easie instance, and the conclusion doth hold in *Darri*.

Of the Seed of Man or Beast.

Q. **VV** Hereof cometh the Seed of Man?

A. There are divers Opinions of Philosophers and Physicians in this point. Some say that it is a superfluous humor of the fourth digestion: and some say that the Seed is pure Blood flowing from the Brain, concocted and made white in the stones: And some say it is the superfluity of the second or third digestion. But because Sweat, Urine, Spittle, Flegm, and Choler are the like, *Aristotle* saith, that the Seed is always the superfluity of the last nutriment, that is of blood dispersed throughout all the body; but yet principally it cometh from principal parts, that is, from the heart, Liver, and Brain. An Argument of this is, because those parts are greatly weakned in our-casting of Seed; and therefore it doth appear that Carnal Copulation is not profitable nor good. But some think this to be true by over-vehement practice in this Act; for otherwise moderately taken it is good and wholesome for the lightning and easing of the body, as it is said before.

Q. Why is the Seed of a man white, and the Seed of a woman red?

A. It is white in man by reason of his great heat, and because it is digested better, and made white in the stones, the flesh of which is white as the flesh of the Paps. But the Seed of the woman is red, because it is the superfluity of the second digestion, which is done in the Liver, which is red. Or else we may say, it is because the Flowers corrupt undigested blood, and therefore it hath the colour of blood.

Q. Whether doth the Seed of man come from the parts of the Body, or from the Humors?

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A. As some say, from the parts of the body : and that we Prove, because we see that a lame man begets a lame Child ; and a Father which hath a scar, a child which hath a scar, as *Aristotle* reports, *lib. de animal.* which could not be, if the Seed did not fall from the parts of the body. But some say it cometh from the humors, because it is made of the last nutriment ; and the nutriment is no part, but a humor. But as for the lameness or scar, that proceeds from the imagination of the Mother at the time of Carnal Copulation, as *Arist.* saith, *lib. de generat. animal.*

Q. Wherefore doth the imagination of the Mother, which imagineth of an Ethiopian or Blackamoor, cause the Mother to bring forth a black Child, as *Albert. Magnus* reports of a Queen, who in the act of Carnal Copulation imagined of a Blackamoor which was painted before her, and so brought forth a Blackamoor ?

A. *Avicen* saith that an imagination of a fall, maketh a man fall ; and imagination of a Leprosie, maketh a man a Leper. And so in this purpose, the imagination is above the Forming Power ; and therefore the Child born followeth the imagination, and not the power of Forming and Shaping, because it is weaker than the other.

Q. Whether doth the Seed of Man enter into the substance and matter of the Child ?

A. The Seed of the Father and the Mother do go into the substance of the Child in the Womb ; because as Cream goeth into the substance of Cheese, so the Seed of a man into the fruit of the Womb, like unto the Cream, and the Flowers of the Woman do enter in like unto the Milk. But this Opinion doth not seem to be of force ; and therefore, according to *Aristotle*, and other Philosophers, we say, the Seed doth not go into the substance of the Child ; and it is proved thus : because that so the matter and the efficient cause should be all one, which is against the Philosopher. The consequence is good, because the seed is the efficient beginning of the Child, as the Builder is the efficient cause of the House ; and therefore is not the material cause of the Child. It is proved another way, because there is the self-same material cause of nourishment and generation. 2. *de anima.* because we have our being and nourishment of the same matter : but the seed
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cannot be the material cause of nourishment, according to *Averrois*, and therefore not of being. But in truth this it is, both the seeds are shut and kept in the Womb; but the seed of the man doth dispose and prepare the seed of the woman to receive the form, perfection or soul; which being done, it is converted into humidity, and is fumed and breathed out by the pores of the Matrix; which is manifest, because only the Flowers of the woman are the material cause of the Young One.

Q. Why doth the Matrix, or Womb of a woman, draw greedily the seed of a man? For, as Averrois saith, there was a Maid in a Bath where some seed had been cast, the which Maid drawing did conceive with child, and was delivered.

A. Averrois says, that the Womb and Nature doth draw the seed, as the Loadstone doth Iron, and the Agathe Steel: but she doth draw it for the perfection of her self.

Of Womens Monthly Terms.

Q. Why have women Monthly Terms, or Flowers?

A. Because they are cold, in respect of men; and because all their nourishment cannot be converted into blood, a great part of it is turned into their Flowers, which in every woman in every Month are expelled. I say of every woman which is in health, and of a certain age; that is after thirteen years: for before they run not, though she be in health; and some diseased women have them not.

Q. Why do they run from women?

A. Because it is an infectious matter; for, as Aristotle saith, if that substance, being young and flowing, do touch a Tree, or green bough of a Tree, the Tree doth die, and not prosper; yea, that if a Dog should taste of it, he would run mad three days, and therefore Nature doth expel it every Month, as being an enemy to life. And if women do retain it above their due time, according to Aristotle, it doth breed great infirmities and diseases, as swooning.

Q. Why do they not run before they be thirteen years of age?

A. Because young women be hot, and do digest all their nourishment, and therefore they are not bred in them before that age, nor expelled, unless the goodness or naughtiness of their complexion hinder it.

Q. Why

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Q. Why have not women them after fifty years of age?

A. Some answer, that old women be barren, and therefore they cease. But a better answer is, that then nature is weak in them, and therefore they cannot expel them by reason of overmuch weakness. And therefore there is great store of Immundities bred in them in one whole lump, and they are by that means so infectious, that they infect men with their breath, and then the Cough and other infirmities come upon them. And therefore according unto the counsel of Physicians, then men should abstain from them.

Q. Why do not such women corrupt and infect themselves?

A. Because poyson doth not work upon it self, but upon some other object; or else, doth not hurt themselves because it is their nature. *Albertus* reporteth of a certain Maid that was brought to him in *Colen*, which did eat Spiders, which did her no hurt at all, but were good meat unto her. And *Aristotle* in his Book of the Government of Princes, reports of a Maid which in her youth was nourished with poyson. And some have done the like.

Q. Why have not women with child Flowers?

A. Because that then the Flowers turn into Milk, and into the nourishment of the child; for if a woman with child have them, it is a sign of miscarrying with her child.

Q. Why do they run the first three months in women with child?

A. By reason of the smallness of the Child, which cannot take all that matter and substance.

Q. Why have not the Females of brute Beasts, as of Fish and Flesh, their Flowers?

A. Because as *Arist.* and *Albertus* say, in Beasts that go with feet, the Flowers turn into hair, the Fish into scales, in Birds into Feathers. And therefore in Beasts you may note, the Female is more hairy then the Male, and the Female of Fishes fuller of Scales, and the Female of Birds fuller of Feathers.

Q. Why do the Flowers receive their name Menstrua, of this word Mensis, a month?

A. Because it is a space of time which doth measure the Moon; for the Moon endeth her course in nine and twenty days and fourteen hours. Now the Moon hath dominion over moist things; and because the Flowers are in humidity, they take

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take the denomination of the Month, and are called Monthly Terms; for moist things increase as the Moon increaseth, and decrease as she decreaseth.

Q. Why do they run longer in some then in others; as in some six or seven days, and ordinarily in all three days?

A. The first are colder, and therefore they increase the more in them, and by consequence they are longer in expelling; and other women are more hot, and therefore they have the fewer, and a shorter time in expelling them.

Q. Where are the Flowers kept before they run?

A. Some say, in the Matrix or Womb. But *Averrois* misliketh this, and saith, the Matrix is the place of Generation, and that those Flowers further generation nothing at all: And therefore he saith, that there are certain Veins about the Back-bone which do keep them. And a sign of this is, because those women at that time have great pain in the back, by reason of expelling their Flowers.

Q. Whether are the Flowers which are expelled, and the Flowers that the Child are ingendred of, all one?

A. No, because the one are unclean, and unfit for that purpose; but the other very pure and clean, and therefore that blood is fit for Generation.

Q. Why do women which are gotten with child when they have their Flowers, bring forth weak Children and leprous?

A. Because those Flowers are venomous; yea a woman in her Flowers is most infectious. And so the cause appears in the effect, as the Philosopher saith, the effect carrieth the likeness of the cause, and therefore such a child is ill dispos'd of body.

Q. Why have not women Flowers all at one time of the Month, but some in the New-Moon, some in the full, and some in the wane?

A. By reason of their divers Complexions. And though all women, in respect of men, be flegmatick, yet of women among themselves, some are more sanguine than others, some more cholerick. And as months have their quarters, so have they their complexions, the first sanguine, the second cholerick. A woman of a sanguine complexion, hath her Flowers in the first quarter, a cholerick in the second, a melancholy in the third, and so in the rest.

Q. Why have such women as are of a sanguine complexion, their Flowers in the first quarter?

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A. Because as *Galen* saith, every such thing added to such a thing doth make it more such; and therefore the first quarter of the Moon increaseth blood in a sanguine complexion, she doth then expel it.

Q. Why have women their flowers so oft in the end of the month?

A. Because generally all women be flegmatick, and the last quarter is flegm. Or else this doth proceed of a defect, and therefore cold doth work then to multiply that matter, and the matter multiplied is then expelled.

Q. Why have women pain and grief in the running of their Flowers?

A. Because it's like the pain of the *Strangury*, that is making water drop by drop: for the *Strangury*, by reason of the drink undigested, offends the subtil passage of the Urine, as it happens after a Bath: so the Flowers undigested, and of an earthly substance, do hurt the passage by which they go.

Q. Why doth a woman easily conceive after her Flowers are run from her?

A. Because she is better prepared unto Conception as being made clean from her Flowers.

Q. Why do women look pale when they purge their Flowers?

A. Because then the heat goeth from all the outward parts of the body to the inward, to help Nature, and to expel the Flowers; the which deprivation of heat doth cause a paleness in the face. Or else it is because that Flux is caused of raw humours, which when they run, do make the face colourless, and so by consequence cause a paleness.

Q. Why doth a woman that hath the Flowers, detest her meat?

A. Because Nature doth labour more to expel the Flowers than to digest; and therefore if she should eat meat, it would remain raw, which careful Nature doth not admit.

Of Barrenness.

Q. Why are some women barren, and cannot conceive?

A. According to the Physicians, for divers reasons; The first is, because it proceeds sometimes of the man, that is, when he is of a cold nature, because then his seed is unfit for generation. The second, because his seed is somewhat waterish and therefore doth not stay in the Womb. The third, because the seed of the man and the woman

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have not the same proportion, as if a man be melancholy, and the woman sanguine; or if a man be cholerick, and the woman very flegmatick; because it is evident in Philotophy, the Agent and the Patient ought to have the same proportion, otherwise the action is hindred.

Q. Why do fat women seldom conceive with child?

A. Because they have a slippery Womb, out of which the seed slippeth, and is not holden in; or else because the mouth of the Matrix is very strait, that the seed cannot enter in, or if it do, it goeth in very slowly; so that the seed doth wax cold in the mean time, and so is unfit for Generation, and is resolved into a fleshy substance.

Q. Why do women of very hot Complexions seldom conceive with child?

A. Because the seed conceived in them is extinguished and put out, as a little water cast into the fire. And therefore we see that women which do vehemently desire the flesh, seldom conceive with child.

Q. Why are Common women and whores never with child?

A. By reason of divers seeds which do corrupt and spoil their instruments of Conception; for it makes them so slippery, that nature cannot retain the seed. Or else it is, because one seed destroyeth another, and so neither is good for Generation. And *Albertus* observes, that the best remedy to help Conception, is to take the Matrix of a Hare beaten to powder, and put into drink, which worketh much to Conception.

Of Conception.

Q. Why do some women conceive a Male-child?

A. If the seed fall on the right of the Matrix or Womb, a Male-child is begotten, because that side is hotter than the other, and heat principally worketh to the begetting of a Male-child. And therefore as *Albertus* saith, if the right side of a woman doth swell, it is a sign that she goeth with a Male-child. But some give another reason, that is, when the seed of the Father hath domination over the seed of the Mother, then the Male-child is begotten; if the Mothers prevail, then it is a Female.

Q. Why do some women conceive a Female-child?

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A. Because the Seed is fallen into the left side of the Matrix, which is colder than the right, by reason of the Spleen joyning to it, which helpeth cold, as *Albertus* saith. When the woman, after the Act of Carnal Copulation, doth lye on the right side, it is a Boy; when on the left, it is a Girl, for the Seed doth run to that side on which the woman lieth, and then such a Child is formed.

Q. Why hath a woman a Womb?

A. Because it is the proper place of Generation and placed in the midst of the woman: for as all the immundities of a City do run into the Sink, so all their Monthly Flowers do run to the Womb of the Matrix.

Q. Why have some women long and slender Children, and some short and thick?

A. Because as *Galen* and *Averrois* say, the Child is formed according to the quantity of the Womb; and therefore because some women have a long and narrow Womb, their Children be long and slender; and some contrariwise short and large, therefore their Children be short and thick.

Q. Why doth a woman sometimes conceive Twins?

A. According to *Galen*, because there are several Cells or Receptacles of Seed in the Womb, and therefore a Woman may naturally have so many children at once, as there falleth Seed into those Cells: for there are three in the right side, and three in the left; in the right side Boys are ingendred, and in the left Girls, and in the midst of those Cells or Chambers, there's another where old Writers say an Hermaphrodite is ingendred; that is, one who hath the secret parts of both Sexes. And therefore if a Woman should have more than seven children at once, it should be rather miraculous than natural.

Q. Why are Twins but half men, and not strong as other men?

A. Because the Seed and substance which should have been for one, is divided into two; and therefore they be weak: and in truth they do not oft live long.

Of Hermaphrodites.

Q. How are Hermaphrodites begotten?

A. Because there are three principal Cells in the Womb, one in the right side, another in the left, and the third

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In the middle; into which when the seed doth fall, an Hermaphrodite is said to be begotten in this manner; because Nature doth alwayes tend to that which is best, therefore she doth always intend to beget the Male, and not the Female, because the Female is only for the Males sake, and a Monster in Nature: Therefore the Male is sometime begotten in all principal parts, and yet through the evil disposition of the Womb and Object, and inequality of the Seed, when Nature cannot perfect and end the Male, she bringeth forth the Female, or Hermaphrodite. And therefore the natural Philosophers say, that an Hermaphrodite is impotent in the privy parts of man, as appears by experience.

Q. Why doth not Nature dispose in him two secret parts of man, or two of a woman; but one of a man, and one of a woman?

A. Because Nature should then make one of them in vain: but that is against the Philosophers, when they say, that God and nature do make nothing in vain.

Q. Whether is an Hermaphrodite to be reckoned for a man, or a woman?

A. It is to be considered in which Member he is fittest for the act of Carnal Copulation; if he be fittest in the womans act, then it is a woman; if in the mans, he is a man.

Q. Whether should he be baptized in the name of a man, or of a woman?

A. In the name of a man, because names are given *ad placitum*; and therefore he should be baptized according to the worthiest name, because every man is worthier than a woman; because every Agent is worthier than its Patient? as *Aristotle* saith, *lib. 3. de anima.*

Q. Whether he shall stand in Judgment in the name of a man, or of a woman?

A. According to the Law he should first swear, before he be admitted to Judgment, which secret part he can use, and so is to be admitted according to the use and power of that part.

Of Monsters.

Q. Doth Nature make any Monsters?

A. She doth, 2. *Phis.* for if she did not, she would then be deprived of her end. For of things possible, she doth always purpose to bring forth that which is most perfect and best:

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best: but in the end through the evil disposition of the matter, and influence of some special Constellation, not being able to bring forth that which she intended, she bringeth forth that which she can. As it happened in *Albertus* his time, when in a certain Village a Cow brought forth a Calf half a man; then the Countrymen suspecting a Shepherd, would have burned him with the Cow: but *Albertus* being skilful in Astronomy, said, that this did proceed from special Constellation, and so delivered the Shepherd from their hands.

These are *Albertus* his words.

We saw that their two bodies were joyned in nothing but in the back: They had two heads, two feet, four hands, and did go which way they listed. And he saith, they reported unto us, that there were two men joyned in the back, and were of a contrary complexion; the one furious, and the other meek: they lived two years, and the one died, and the other lived long after, untill the stink of the other did kill him. I ask, How this can be? it is answered thus; because the seed is cast into the Cells or Receptacles of the Womb, which seed was enough for two Children, and then by chance it doth sometimes happen, that the skin or distance between the two Cells or Receptacles is broken, and they knit and joyn in the back, and have two heads.

Q. Whether be they one or two?

A. Aristotle saith, you must look unto the Heart; and if there be two Hearts, there be two Men.

Q. Why is a man born sometime with a great head, and six fingers on one hand, or with four?

A. Aristotle saith, it proceedeth of superfluity and abundance of matter; when there is too much matter, then he is born with a great head, or six fingers; but if there be want of matter, then there is some part too little, or less than it ought to be.

Of Infants.

Q. Why are some Children altogether like the Father, some like the Mother, some to both, and some to neither?

A. If the seed of the Father do wholly overcome the seed of the Mother, the Child doth wholly resemble the Father; but if the Mothers seed predominate, then it is like the Mother but

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but if he be like neither, that doth happen for many causes ; sometime through the four Qualities, sometime through the influence of some heavenly Constellation. *Albertus* giveth an Example, and saith, That there was on a time a good Constellation for begetting of Hogs, and a Child was then begotten and brought forth which had a face like a Hog : and according to this divers sorts of Monsters are brought forth.

Q. Why are Children oftener like the Father than the Mother ?

A. That proceedeth of the imagination of the Mother, which thinketh of the disposition of the Father in the act of carnal copulation, and therefore by reason of the strong imagination in the time of conception, the Children get the disposition of the Father : as it appeareth before of the Queen which had her imagination on a Blackamoor, and of an Ethiopian Queen which brought forth a white Child, because her imagination was upon a white colour. And this is seen in *Jacobs* skill in casting Rods of divers Colours into the Water when his Sheep went to Rain.

Q. Why do Children sometimes resemble more the Grandfathers and great Grandfathers than their Parents ?

A. Because the vertue and force of the Grandfather is grafted into the heart of the begetter ; and it may be said, that sometimes it doth proceed of the similitude of the nouriture, and then the Child is formed by the similitude of the Grandfather.

Q. Why are the parts of a Childs Body of divers qualities, & some soft ?

A. This proceedeth of the predomination of divers Elements, because the bones are made of a terrestrial matter, and therefore are hard : but the Brain and the Marrow are made of a more watry matter, and therefore are more soft but the vital Spirits and animal Spirits are engendred of a more aerious substance, and those vital Spirits are principally in the Liver and in the heart.

Q. Why do Children, according to the common course and use of Nature, come out of the Mothers womb in the ninth month ?

A. Because the Child is then fully perfect ; or else because some benign Planet doth reign, as *Jupiter* who is a friend of Nature : for according to Astronomers he is hot and moist, and therefore doth temper the malice and naughtiness of *Sa-*

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turn, which is cold and dry ; and therefore for the most part Children born in the ninth Month are healthful.

Q. why do Children born in the eighth Month, for the most part die quickly ? and why are they called the Children of the Moon ?

A. Because the Moon is a cold Planet, which hath dominion over the Child, and therefore doth bind the Child with its coldness, which is the cause of its death.

Q. why doth a Child cry as soon as it is born ?

A. Because of the sudden change from heat to cold, which cold doth hurt its tenderness. Another reason is, because the Childs soft and tender body is wringed and put together, coming out of the narrow and straight, passage of the Matrix, and especially the brain being moist, and the head prest and wringed together, is the cause that some humors do distil by the eyes, which are the cause of tears and weeping. The Divines say, it is for the transgression of our first Fathers, and Original sin.

Q. why doth a Child put his finger into his mouth when he cometh first into the World ?

A. Because that coming out of the Womb, he cometh out of a hot Bath ; and therefore entring into the cold, putteth his finger to his mouth for want of heat.

Q. How doth a Child come into the World out of the Womb ?

A. He cometh forth with the head forward : for if he should come with the thighs or Arms forwards, he should kill himself, and the Mother.

Of the Young one in the Womb.

Q. How is the young one successively ingendred in the Womb ?

A. The first six days the seed hath the colour of Milk, but in the six days following a red colour, which is near unto the disposition of flesh ; and then it is changed into a thick substance of blood, curded and consistent, not running, like unto a mass of flesh : but in twelve days following, this substance is made so thick and sound, that it is able to receive shape and form ; because a fluid or running substance keepeth on until his birth : And how he is governed every Month by the Planets, Boetius doth teach us elsewhere.

Q. whether doth the Child in the Womb void excrements, or make water ?

A. No

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A. No, and the reason is, because he hath the first digestion which is in the Stomach, because he receiveth no meat by the mouth, but it cometh to him at the Navel : and therefore he maketh no water, but doth sweat, which Urine is but little in quantity, and is reserved in a small skin in the Matrix ; and at his birth is cast out in abundance.

Q. *Why doth the Child come out of the womb easily after seven, eight, or nine Months ?*

A. Because saith Galen, when the Fruit is ripe, then the Ligaments are easily broken, and so it falleth easily.

Of Abortment, or untimely Birth.

Q. *VVhy do women which eat unwholesome meats, as ramish putrified meats, easily miscarry ?*

A. Because it breeds putrified seed in them, which the mind abhorring, doth cast out of the field of Nature, that is, out of the Womb, because it is unfit for the most noble shape, that is, for man's form and shape, which is apt to receive the soul.

Q. *Why do wrestling or leaping cause the casting of the Child, as some crafty women use to do of purpose ?*

A. Because that by such leaping, the Ligaments of the Child are loosed, and by consequence there followeth abortment, because it can no longer be kept in the Womb.

Q. *VVhy doth the striking of Thunder or Lightning cause a woman to miscarry ?*

A. Because that the vapour is burning, and doth easily hurt the tender substance of the Child, entring in at the pores of the Matrix or Womb. Yea, Albertas doth say, that if the Child were near delivery, Lightning and Thunder would kill him.

Q. *VVhy doth Thunder and Lightning rather cause young women to miscarry than old ?*

A. Because the bodies of young women are fuller of pores, and more slender, and therefore the vapour of Lightning doth sooner enter into their body ; but old women have a thick skin, and well compacted, and therefore the vapour cannot enter in, and cause this Abortment.

Q. *VVhy doth much joy cause a woman to miscarry with her burden.*

A. Because that in the time of joy a woman is destitute of heat,

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heat, and by consequence miscarrying doth follow. The same reason doth cause fear to breed it, because then the heat runneth to the heart to help it, and forsaketh the Mattix.

Q. Why do women easily miscarry, when they are newly with Child, that is, the first, second and third Month?

A. Galen saith, that as Apples and Pears do easily fall in the beginning, because the Knots and Ligaments are soft and weak, so it is of a Child in the Womb.

Q. Wherefore is it hard to miscarry when they are come to the middle of the time, that is, three, four, five, six Months?

A. Because that then the Ligaments are stronger and fortified, and therefore not easily broken.

Of divers Matters.

Q. Why have some women greater grief than other some in Child-birth?

A. For three causes. Sometimes for the greatness of the Child, or because the Midwife is unskilful. Sometimes because the Child is dead, and boweth not, nor can be bowed in going forth. And for the contrary causes some have less pain.

Q. Why hath no Man a Tail like unto Beasts?

A. Because a man is a living Creature, whose property is to sit: but this is proper to no beast which hath a Tail.

Q. Why do such as keep Baths, or Hot-houses, expel the heat out of the Furnace better with cold water than with hot?

A. Because they are contrary qualities, which work strongly the one against the other; and therefore the heat is better expelled from the stones.

Q. Why doth hot water sooner freeze than cold?

A. Because hot water is thinner, and by consequence giveth better entrance to the cold.

Q. Why are men fatter above the belly than in other places?

A. Because the greatest digestion is in the Stomach, and therefore those parts which are nearest unto the Stomach, are greatest and fattest.

Q. Why is every living creature sad after Carnal Copulation?

A. Because this act is filthy and unclean, and so every living creature doth abhor it; and when men do think upon it, they are ashamed and sad.

Q. Why cannot drunken men judge of tastes as well as sober men?

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A. Because the flesh of the tongue is full of pores, and spongy, and receiveth great moisture in it, and more in drunken men than in sober, and therefore their tongue through often drinking is full of naughty humors, and by reason that it is so full, the instrument of Taste is made thick and gross, because that is a Vein of the Tongue, a subtil thin flesh being taken away. And therefore through the thickning of the mean, that is of Taste it self, drink taken of drunkards is not presently felt, because that unto due feeling there is requisite to have a due proportion of the mean. And of this also it is understood why drunkards have not a perfect kind of speech.

Q. Why have melancholy Beasts long ears, and why are not men wise for the most part which have long ears, but such as have short? as Aristotle saith in his Book de Animal.

A. The Ears do proceed of a cold and dry substance, which is called a Gristle, which is apt to become a bone. And because melancholy beasts do abound in this kind of substance, therefore they have long ears.

Q. But why are the others half Fools?

A. Because the minds and souls do follow the bodies: for if the senses of the body be subtile, then the soul exercises subtile operations, as well active as speculative: and the contrary is in a gross body.

Q. How is the intellectual soul joyned to a Child in the womb of the Mother? whether doth the Father which beggetteth him make the matter apt and fit to receive the Soul?

A. The answer is, as the Divines do say, That into a matter of substance sufficiently disposed and made fit, God doth infuse the intellectual Soul: and S. Augustine saith the like, the Soul in creating is infused, and in infusing created.

Q. Why do Hares sleep with their eyes open?

A. Because they have their eyes standing out, and their eyelids short, and therefore they are hardly shut. Another reason is, because they are fearful beasts, and therefore for the safeguard of themselves they sleep with their eyes open.

Q. Why do not Crows give their young ones meat till they be nine days old?

A. Because seeing them of another colour, they think they are of another kind: in the mean space Almighty God doth feed

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them with the dew of Heaven, as the Psalmist saith, *he who doth give beasts their Food, and young Crows which call upon him.*

Q. Why are Sheep and Pidgeons very mild beasts?

A. Because they want Galls, and it is the Gall which stirreth unto anger.

Q. Why have Birds their stones inward?

A. If they had them outward, they would hinder their flying and lightness.

Q. Why do not Birds piss.

A. Because that superfluity which should be converted into Urin is turned into Feathers, as it appeareth, because there is much moistness in the Feathers. Another reason is, because they are in continual moving, and therefore much moisture in them is dried up by air and wind.

Q. Why are long Eggs a sign and cause of the Male, and flat short Eggs of the Female?

A. Because (as it pleaseth Hippocrates) it is the condition and property of heat to send from the centre to the circumference of cold. And therefore if there be any long Eggs, it is a sign they have a great heat, and therefore pass into the substance of the Male, because in every kind of thing the Male is hotter than the Female, as the Philosopher saith. If the Eggs be short and flat, it is a sign the heat is small and undispersed; and therefore goeth into the substance of the Female.

Q. Why do we hear better in the night than in the day?

A. Because (as Aristotle saith) there is greater quietness in the night then in the day, because the Sun doth not so well draw up vapors in the night as in the day, and therefore the Mean is more fit and ready; and the Mean being fit, the Motion is better done by it: the which is said to be done with a sound. Another reason is, because there are more Motions of the Air and sounds in the day, than in the night, which do hinder one another. Also in the night there is greater silence, which is opposite unto sound; and things opposite put one against the other, shew the better.

Q. Why doth a man laugh sooner if he be touched under the Armpits, than in other parts of the body?

A. Because there is in that place a meeting of many sinews, and because the mean we touch by (which is the flesh) is more subtil

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subtil there than in other parts, and therefore a better feeling. And this is true, if that place be not touched too hardly ; for if you do so, then there is not that delight : and when a man is moderately and softly touched there, the spirits which are there are dispersed, run into the Face, and then from thence is cause of laughter.

Q. Why is wood burn'd, converted into a black Coal ; and a bone burn'd, into white substance ?

A. Because the Wood before it was burned, was reasonable moist, and so after burning getteth heat accidentally, and that heat is not able to consume all the moisture of the wood, and therefore there remaineth some after the burning, and is converted into a black substance, because the humidity of the wood was slimy, and could not altogether be consumed by the fire. But a bone of its own nature is cold and dry, having but small moisture in it, which the burning doth wholly consume, and so accidentally the moisture being consumed, the body waxeth white.

Q. Why do some women love white men, and some black ?

A. There are two answers. Some women have a weak sight, and such delight in black, because the white doth hurt the sight more than black. The second reason is, because like doth delight in the like, but because some women are of a hot nature, such are delighted with black, because blackness doth follow heat. And others are of a cold nature, and these are delighted with white, because cold is the mother of whiteness.

Q. Why do living Creatures sleep ?

A. For necessity, because the instruments of divers actions are wearied by being long awake, and by rest which is in sleep, they are comforted, as Aristotle saith.

Q. Why are Students ready to sleep after dinner, if they go about to study, and not if they solace themselves ?

A. Because when a man doth apply his mind to study, the natural heat goeth from the outward parts of the body to the inward, and there it strengthneth, because there cometh much of it together, and causeth a fume to ascend from the meat to the head, which is the cause of sleep. Or else we may answer, that when the power or virtue with which we sleep is strongest, the natural power is weakned : but when a man doth solace

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himself by this displeasure, the natural heat is spread abroad, & suffereth no vapor to ascend unto the brain, and so sleepeth not, but is kept from sleep by reason that the heat is dispersed.

Q. Why do men sleep willingly after labour?

A. Because that through continual moving, the heat is dispersed to the external parts of the body, the which after the labour is past, gathereth together to the internal parts of digestion, there to digest; and from digestion vapors do rise from the heart to the brain, the which do stop the passages, by which the natural heat should be dispersed to the external part; and then the external parts being cold and thick by reason of the coldness of the Brain, sleep is procured. And by this it appeareth, that such as eat much and drink much, do sleep much and long, because great store of humors and vapours are bred in such, which cannot be digested and consumed of the natural heat.

Q. Why are such as sleep much, evil disposed, and ill coloured?

A. Because that in sleep much moisture is gathered together, which cannot be consumed, which is expelled in waking, and so it doth cover to go out through the superficial parts of the body, and especially it coveteth to the face, and so is cause of a bad colour, as it appeareth in such as be flegmatick, who desire more sleep than others.

Q. Why doth it appear unto some in their sleep, that they eat and drink sweet things?

A. Because the flegm drawn up by the jaws, doth distill and drop to the throat, and this flegm is after a sort sweet, and therefore that seemeth so unto them.

Q. Why do some dream in their sleep that they be in the water and drowned, and some that they be in the water, and not drowned: and this doth happen especially in such as are flegmatick?

A. The reason is (as Aristotle saith) because the flegmatick substance doth run to the high parts of the body, and then they think they are in the water and drowned: and when that substance draweth unto the internal parts, then they think they escape. Another reason may be overmuch repletion and drunkenness: and therefore when a man is overmuch filled with meat, the fumes and vapors ascend and gather together, and therefore they think that they are drowned and strangled: but

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If they cannot ascend so high, then they seem to escape.

Q. May a man procure a dream by an externall cause?

A. Aristotle holdeth that it may be done, if a man do speak softly at a mans ears, and awake him; then of this stirring of the spirits, there are thundrings and buzzings in the head, and so dream of that. And so some men have dreams, by divine Revelations, when it pleaseth God to send any.

Q. How many humors be there in a mans body?

*A. Four, whereof every one hath its proper place in mans body. The first is Choler, which Physicians call *flava bilis*, and is placed in the Liver. The second is melancholy, called *atra bilis*, whose seat is in the Spleen. The third is flegm, whose place is in the head. The fourth is blood, whose place is in the heart.*

Q. What condition and quality hath a man of a sanguine complexion?

A. He is fair and beautiful, he hath his hair for the most part smooth; he is bold, he retaineth that which he hath conceived; he is shamefac'd, given to musick, a lover of sciences, liberal, courteous, and desires not revenge.

Q. What properties do follow a flegmatick complexion?

A. They are of a dull wit, their hair never curls, they are seldom very thirsty, they are much given to sleep, they dream of things belonging to water, they are fearful, covetous, and given to heap up riches, and are weak in the act of Venery.

Q. What properties do follow the cholerick man?

A. He is furious and angry, quarrellsome, given to War, pale coloured, he is unquiet, driaketh much, sleepeeth little, and desireth much the company of Women.

Q. What properties follow the melancholy man?

A. He is unquiet, brown in complexion, his veins hidden, he eateth little, and digesteth less: when he dreameth it is of dark confused things; he is sad, fearful, exceeding covetous, and incontinent, unless he bridle his affection.

Q. What dreams do follow these complexions?

A. Pleasant merry dreams do follow the sanguine complexion; fearful dreams the melancholy; the cholerick dream of Children, fighting and fire; and the flegmatick of water. And this is the reason why a mans complexion is said to be known by his dreams.

Q. What

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Q. What is the reason that if you cover an Egg over with salt and let it lie in it a few days, all the meat within it is consumed?

A. The great driness of the Salt doth consume the substance of the Egg; but in Sand, some say, they may be kept long, as the Mariners do practise.

Q. Why is the Melancholy Complexion the worst of all?

A. Because it is the dregs of the blood, which is an enemy to mirth, and farthest from the beginning of mans life, and bringing old age and death, because it is dry and cold.

Q. Why is the flegmatick for the most part dull of wit?

A. Because that the vivacity of wit proceedeth of heat, so of the cold contrary, which they are subject unto.

Q. Wherefore doth it proceed, that some men die with extream joy, and some with extream grief?

A. Over-great joy doth over-much cool the internal parts of the body; and over-much grief doth drown and suffocate the heat, the which falling, a man dieth.

Q. Why hath a man so much hair on his head?

A. The hair of the head proceedeth of the vapours which rise from the stomach, and ascend to the head, and also of the superfluities which are in the brain: and these two passing thorow the pores of the head, are converted into hair, by reason of the heat and driness of the head. And because mans body is full of humors, and he hath more brain than other Creatures, and also more superfluity in the brain, which the brain expelleth, it followeth, that he hath more hair than other living Creatures.

Q. How many ways is the brain purged, and other hidden parts in the Head?

A. The watry and gross humors are purged by the Eyes, melancholy by the Ears, choler by the Nose, and flegm by the hair.

Q. What is the reason that some blush and change colour, when they hear that which they would not?

A. Shamefacedness is a kind of anger, displeasure and fear joyn'd together, as when a man is offended against himself, or against another: and therefore when we see or hear something to be discovered which our selves have done naughtily, or would not have known, the anger which we conceive

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is greater than the fear, and therefore the blood runneth to & fro, and in the end remaineth in the highest parts of the body, until the spirits be quiet and pacified, and the passion gone.

Q. What is the reason that such as are very fat in their youth, are in danger to die on a sudden?

A. Such have very small and close Veins by reason of their fatness, so that the air and breath can hardly have free course in them; and thereupon the natural heat wanting some refreshment of the air, is put out, and as it were quenched.

Q. Why do Garlick and Onions grow after they are gathered?

A. It proceedeth of the great humidity which is in them.

Q. Why do men feel cold sooner than women?

A. Because men being more hot than women, have their pores more open; and therefore the cold doth sooner enter into them, than into women.

Q. Why are not old men so much subject to the Plague, as young men and Children?

A. They are cold, and therefore their pores are shut up, and not so open as in youth; and therefore the infecting air doth not penetrate so soon as when they are open, as in youth by reason of their heat.

Q. What is the reason that Lime is set on fire, and on a greater heat by casting water on it?

A. Lime is hot of nature, and therefore when water is cast on it, it fleeth from the cold, and by uniting of its force gathereth a greater heat and strength, and so is set on fire. And that is also the reason that a Candle doth burn faster in the Winter than in the Summer; for then by reason of the incompassing cold, the heat uniteth it self, and gathereth the closer to the Tallow or Wax, and so doth consume it the faster.

Q. Why do we cast water into a mans face when he swooneth?

A. Because that through the coldness of water, the heat may run to the heart, and so give strength.

Q. Why are those waters best and most delicate, which run towards the Sun-rising?

A. Because they are soonest stricken with the Sun-beams, and made pure and subtil, because the Sun hath them long under him, and by that means takes away their coldness and gross vapour, which they take of the ground they run thorow.

Q. Why

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Q. Why have women such weak small voices?

A. Because their instruments and organs of speaking, by reason they are cold, are small and narrow, and therefore receiving but little air, causeth the voice to be small and effeminate.

Q. Whereof doth it proceed, that want of sleep doth weaken the body and the brain?

A. Much watching doth ingender choler, the which being hot, doth dry up and lessen the humors, which conserve the brain, and the head, and other parts of the body.

Q. Whereof doth it proceed that Vinegar doth stretch blood?

A. It proceedeth of its cold vertue: for all cold naturally is binding, and vinegar being cold, hath the like property.

Q. Why is the Sea-water saltier in Summer than in winter?

A. This proceedeth from the heat of the Sun, seeing by experience that a salt thing being heated, becometh more salt.

Q. Why is smock contrary to the eyes?

A. Because in the eyes there is a delicate and pure Chrystalline humor; and the eye is also cold and without any colour at all, and the smock is gross and hot, and by that means doth pierce the humors of the eyes, and hurt them; and if the eye had any colour in it, all things set before it would seem to be of the same colour. And because the eyes are cold, and the smock hot, it doth cause the vapors which are contained in the eyes to drop and distil, which is hurtful to the eyes.

Q. Why do men live longer in hot Regions, than in cold?

A. Because they be more dry, and by that means the natural heat is better conserved in them than in cold Countries, because the cold doth extinguish the heat.

Q. Why is Well-water seldom or never good?

A. All water which standeth still in its Spring, and is never heated with the Sun-beams, is very heavy, and hath much earthly matter in it; and therefore wanting the heat of the Sun, is naught.

Q. Why do we sleep better and more at ease on the right side than on the left?

A. Because when we lye on our left side, the Lungs do lye upon and cover the heart, which is on that side under the Pap. Now the heart, the fountain of life, being thus occupied and hindered with the Lungs, cannot exercise its own proper

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operations, as being over-much heated with the Lungs lying on it, and therefore wanting the refreshing of the air which the Lungs do give it, like the blowing a pair of Bellows, is choaked and suffocated: and lying on the right side the inconveniences are avoided.

Q. Whereof doth it proceed, that the holding of the breath doth cause yexing to go away?

A. Because the holding of the breath doth heat the internal parts of the body, and this heat chafeth away the yex, being nothing else but a cold air within the body.

Q. What is the reason that old men sneeze with difficulty?

A. Because that through their coldness their Arteries are very narrow and close, and therefore the heat is not of force to expel the cold; for I think sneezing is like the combat in the air made by Thunder, which is caused of heat and cold.

Q. Why doth a drunken man think that all things do run round about him?

A. Because the spirits which serve the sight, are mingled with vapors, fumes, and the Wine: and then the over much heat causeth the eye to be in a continual moving; and the eye being round causeth all things about it to seem to go round.

Q. Whereof doth it proceed, that bread which is made with salt, is lighter than that which is made without it, considering salt is very heavy of it self?

A. Although bread is heavy of it self, yet the salt drying it, doth make it light, by reason of the heat which it hath, which heat doth dry: and the more heat there is in it, the better the bread is, and lighter, and more wholsom for the body.

Q. Why is not new bread good for the Stomach?

A. Because it is full of moistness, and thick and hot vapors, which do corrupt the blood. And hot bread is blacker than cold, because heat is the Mother of blackness, and because the vapors are not gone out of it.

Q. Why doth Lettuce make a man sleep?

A. Because they do engender gross vapors.

Q. Why do the dregs of Wine and Oyl go to the bottom, and that of Honey swim uppermost?

A. Because the dregs of Wine and Oyl are earthy, and no way purged before, and therefore being of the nature of earth, do

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go to the bottom : but honey is a liquor which cometh from the stomach and belly of the Bee, and there in some sort purified and made subtil, and by that means that which remaineth is light and hot, and therefore goeth upward.

Q. Why do Cats and Wolves eyes shine in the night, and not in the day?

A. The eyes of these beasts are by nature more Crystalline then the eyes of other beasts, and therefore do shine as they do : but the brightness of the Sun doth hinder them to be seen in the day time.

Q. What is the reason that some men when they see others dance, do the like with their head or feet, or by some other gesture of the body?

A. The answer is, because the sight having carryed and represented unto the mind that action, and judging the same to be pleasant and delightful, and therefore desiring it, the Imagination draweth the likeness of it in conceit, and stirreth up the body by these gestures.

Q. Why doth much sleep cause some to grow fat, and some lean?

A. Those which are of the complexion, when they sleep, do consume and digest the superfluities of that they have eaten, and therefore become fat : But such as are of good complexion, when they sleep, are much more cold, and do digest less.

Q. How, and for what cause do we suffer hunger better than thirst?

A. When the stomach hath nothing to consume, it consumeth the flegm and humors which it findeth most ready and most at hand, and therefore we suffer hunger better than thirst, because the heat hath nothing to refresh it withal.

Q. Why doth the hair fall after a great sickness?

A. When the sickness is long, or an Ague, the humors of the head are dried up through overmuch heat, and therefore wanting nourishment they fall.

Q. Why doth the hair of the eye-brows grow long in old men?

A. Because that through their age the bones of the eye-lids are thin by reason of want of heat, and therefore the hair doth grow there by reason of the Rheums of the eyes. The like doth happen in such as imagine much, because that with their heat they draw many humors to the forepart of the head, where the imagination is placed.

Q. Where

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Q. *Whereof proceedeth gaping?*

A. Of gross vapours which occupy the vital spirits of the head; and the senses are cold, and make them ready to sleep.

Q. *What is the reason that some Flowers do open with the Sun-rising, and shut with the Sun-setting?*

A. Cold doth close and shut, as hath been said, and the heat of the Sun doth open and enlarge. Some do compare the Sun unto the Soul of the body; for as the Soul giveth life, and when it departeth, death followeth; so the Sun doth give light, and vivicate all things; and cold bringeth death and withering and decaying of all things.

Q. *Why doth grief cause men to grow old and gray?*

A. Age is nothing else but a dryness, and want of humors in the body: grief then causeth alteration, and alteration heat, and heat driness; age followeth immediately, and grayness.

Q. *Why are gelded beasts weaker than such as are not gelded?*

A. Because they have lesser heat, and by that means lesser force and strength.

Marcus Antonius Zimaras Sanctipertias his Problems.

I. **W**HY is it esteemed in the judgment of the most wise the hardest thing to know a mans self?

Is it because nothing can be known, if its form and perfection cannot be known? to know the form and perfection of a mans self, as it seemeth unto the Philosopher, is a matter hard enough, and a man by the authority of Plato, either is nothing, or if he be any thing, he is nothing else but his Soul: Or is it because it cannot be done by a reflected action, and to reflect and look unto himself, is a token that he is separated by the flesh: For he who would know himself, should be drawn from sensible affections; and how hard this is, no man is ignorant? Or is it because a man liveth by understanding? but the understanding of a man cannot conceive himself, but after the understanding of senses, which is very hard.

II. *Why was Socrates esteemed the wisest of all Greece by the Oracle*

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Oracle of Apollo, seeing that by the opinion of Aristotle, he was conversant and busied only about morality, & nothing about nature?

Whether is it because it is more expedient for the common commodity and use of men to live well, than to contemplate? Or because it seemeth to *Plato*, that was usually professed of him every where, *I know that one thing, that I know nothing?*

III. *Why do men especially contend and strive in things of war?*

Is it because they think that other things which are called goods, are in the power of another, as the gifts of the body are natures and external and worldly goods are subject unto the rule of Fortune? whereof it cometh to pass, that every man can easily suffer himself to be overcome in such things, as things not hapning through his fault or occasion: but they think wit to be in their own power? Or is it because they think that the goods of the mind do excel all other goods, and therefore do think it is a thing most natural to contend for that which is most excellent? Or is it because it is a common disease of all men, as it seemeth unto a certain wise man, That every man doth think himself more learned than he is, and therefore doth desire to perform that which he believeth without study and labour.

IV. *What is the cause that few men take pains in attaining of Sciences, seeing that all men desire to know?*

Whether is it because the gods have put vertue to be begotten with sweat and labour, as *Aesculapius* saith? Or because the pleasures of the body do draw a mans mind from the searching out of the truth? Is it requisite for him who desireth to live in mind, that he think and meditate on the earth of the body, as the divine *Plato* doth think? Or is it because the nature of a man is forced to serve many ways, as it pleaseth *Aristotle*, whereof it falleth out, that when things necessary do fail, the natural desire is not brought into action? For nature of her self is able to contemplate.

V. *Why do men say that Philosophy is naked?*

Is it because truth is naked, and that there needeth no colour of words when we handle a matter of truth? for it belongeth to Sophisters to dispute of terms, when the sincere truth is sought. Or is it because they do not play the Philosopher well, which seek Philosophy for gain and ambition, and not for her

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self? or is it because he should be void from all worldly affections, who desireth to endeavour himself in study of Philosophy: for Aristotle doth say, the soul is made wise by rest and quietness. And it were easie for Philosophers to become rich if they would, as appeareth by the example of *Thales*.

VI. *Why do men desire to be had in memory after their death, and therefore some make Pyramides, Statues, Images, and divers other tokens and monuments which they build and leave behind them?*

Is it because all things, as seems unto Aristotle, do desire to participate of some perpetuity and divine being, as much as they can; and therefore if they cannot remain in nature and being, yet they endeavour at the least to continue in opinion and conceit of men; or else hath custom brought it in so, to stir up such as come after, to the end they should not degenerate from their Parents.

VII. *What is the cause why mens desires grow without measure, about Fortunes goods?*

Is it because natural desires, as Seneca saith, have an end, and such desires which proceed of false opinion, have no where to end.

VIII. *Why do Poets always assign and appoint some wise men to be familiar with Princes? as Homer doth Nestor with Agamemnon; Euripides, Tiresias with Creon; Hesiodus, Prometheus with Jupiter; and Maro, Achates with Æneas.*

Is it because that by the Law of nature, as Plato doth say, wisdom and power doth direct our actions to one end, and affect the same thing, love it, and seek it.

IX. *Why doth Homer when he makes mention of Ambassadors, talk always of the Embassie of a Commander in bare words?*

Is it because it is the duty of Ambassadors to declare the bare will of the Commander, and put his sentence in execution; And therefore it is certain he should add nothing, nor take away nothing? Or else is it because the commandment of him who doth rule, that is of a wise man, is put in good order, and is presumed to be most perfect? And therefore there should be nothing changed, but his Decrees and Constitutions are to be judged absolute and perfect.

X. *Why doth Aristotle use exceeding brevity in most hard matters?*

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Whether is it because it is the custom of wise men to load their words with sentences : or else to the end that he would be obscure, to fear and keep off rude wits from the reading of his works, as it seemeth to the Expositors ? Or whether is it because that in a hard matter, and in matter of truth many words are suspected, because that truth doth consist in a few words ? Or is it because it seemeth unto the wise man in many words there is error often committed.

XI. *Why do famous men in any Science, when they do err in any matter, err more dangerously than these which are less famous ?*

Is it because that such, trusting to the skill of their own wit, are drawn far from their senses, and therefore must needs be deceived ? *Avicen* may serve for a proof of this, who for all his Fame in Philosophy, said, that a man might naturally be brought forth of the Earth. And that famous great *Averois*, who thought that a Maid might conceive with child in a Bath, without knowledge of Man.

Out of ARISTOTLE.

Q. *Why is a man, who is endued with learning, the most unjust of all living Creatures ?*

Whether is it because with his wit and conceit he is much given to pleasures, and therefore he doth seek out greatly, and weigh what felicity is ; which no man can obtain but with injury.

XII. *Why do men desire rather to seem, than to be and not seem ?*

Is it because man only is particular of Honour, whereby it cometh to pass, that every man desireth to seem good, and yet naturally flyeth labour, though we get no vertues but by labour ? Or is it because the property of a Sophister is rather to seem, than to be and not seem ; But there are very few which truly attain unto vertue.

XIII. *Why do some in their youth beget Girls, and in their middle age, or when they are old, beget Boys ?*

Whether is it because the seed waxeth cold in such as use the act of carnal copulation too oft ? and therefore in their middle when they grow old, not using it so much, their seed is hotter, which is the begetter of Males ?

XIV. *Why have Children and Boys pleasure in the act of Venerie, seeing they do not cast forth any seed ?*

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It is, as the Philosopher saith, because there is a certain tickling and itching in the letting forth of the Spirit of breath, as it is in such as are of age by the the casting of seed.

XV. *Why have they the lesser pleasure, which use the act of copulation oft?*

Whether is it because by often using carnal copulation, the spirit and seed doth decrease and wax cold; and therefore the seed is not so itching, nor so tickling, which is the cause of delight, as Philosophers affirm.

XVI. *Why doth immoderate carnal copulation more hurt than immoderate letting of blood?*

Whether is it because the seed is fuller of Spirit and nutriment, better disposed and prepared for the nature of the body, than the blood? For as it seemeth unto Galen, the seed is the cause of the substantial parts of the body, and of it the body doth grow, increase, and is nourished. And as he who is hungry, is hurt more by the taking away of Bread, than of Flower; so the body is more weakened by the taking away of seed, than by the evacuation of blood.

XVII. *What is the reason that such as have a very long yard, cannot beget Children?*

Whether is it because the seed is going a long distance, the spirit doth breath out; and therefore is cold and unfit for generation?

XVIII. *Why do such as are corpulent cast forth little seed in the act of copulation, and are often barren?*

Is it because the seed of such passeth into the nourishment of the body? And for the same cause, corpulent Women have but small store of Flowers?

XIX. *Why are women apt to the act of Venery in Summer time and men in Winter?*

Whether is it as it seemeth unto the Philosopher, because at that time their stones hang downward, and are feeble than in the Winter, seeing it necessary for him who will use carnality to draw them up? or is it because hot natures do become lively; for a man is hot and dry, a woman cold and moist; and therefore in this season the strength of man doth decay, and the strength of women grow stronger and livelier, through the benefit of a contrary quality. And for the same

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cause as *Galen* saith, some beasts of a cold nature do almost dye in dens and holes, through the excessive heat of the air, and do receive little nutriment at all, which revive again when heat cometh.

XX. *Why is a man the proudest of all living Creatures?*

Whether is it by reason of his great and strange knowledge; or as the *Philosopher* saith, all sensible things consist in sense, intelligible in the understanding; what remaineth then that escapeth his knowledge? Or is it because he seemeth to be the knot and fastning together of God & the world: for he is in the middle betwixt both? Or is it because he hath rule over all earthly Creatures, and all things seem to be brought to his arbitrament? Or shall I answer, That the pride of man doth proceed of the want of knowing of himself. For truly, if he would remember that he is conceived like unto dung and urine, if he would mark how he is brought naked into the world, if he would weigh how he doth lead his life in misery and toil, if he would think deeply how he is bound to die, he would not be proud at all.

XXI. *Why doth man especially understand one thing, and do another?*

Is it because there is the same science of contrary things; or because the office of the mind is to reach unto many things and the appetite tendeth unto one thing only? And so a man for the most part doth live by understanding and reason; and beasts are led with appetite, anger and pleasure.

Out of **ARISTOTLE.**

XXII. Q. *Why is a man wisest of all living Creatures?*

A. Whether is it because he hath a very little head in respect of the proportion of the body, as it seemeth unto the *Philosopher* in his Problems? Or is it because he is of a most perfect nature, and therefore the habits of vertues are most excellent in him? Or whether is it because the blood of man is most subtil and pure, and clean? The blood is the nutriment and that the last nutriment, and therefore there is great difference, whether is it cold or hot, thin or thick, troubled or clear, or is it by reason that through its own constitution hath a most perfect sense of feeling, as experience doth shew in men? For because they have soft flesh they are endued with a sharp and quick wit; and they whose flesh and skin is thick

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thicker and groffer, are dull and slow. And therefore the temperance of man seemeth most fit and apt for prudence & wisdom. And by that reason that in a soft body and tender, the first and motherlier spirit of the soul is easilier infused; and doth more willingly and speedily discourse; and contrariwise, the hardness and thickness doth stop, and therefore is a hindrance that the pure clean blood, whereof the spirits are ingendred, be not carried from place to place: for unto every man is given a certain portion of spirit to work withal.

XXII. *Why are all womens wits unapt in good things, and most prompt in naughty things, as Euripides saith in Medea?*

Whether is it because of a privation which seemeth to be coupled and joyned with her nature; for as it doth appear unto a Philosopher, a woman is a mans hurt, and the condition of a privation is always to go about hurt and intend mischief,

XXIII. *Why do men say, that a womans first counsel should be chosen?*

Is it because (as we see in things which want reason) their actions and motions are guided and directed to their proper ends by a superior power? For I think that to be most true which is said, that there is providence which doth cast into an dishonest heart, the desire of honesty, and in a poor man the desire of wealth, as far as it is sufficient. So the understanding of a woman, although she understand not the reason of good and evil, is sometimes directed by an infallible truth, to take some things in hand; but the counsels which they go about, through their own searching, are to be left off as weak and subject to many errors.

XXIV. *Why do women desire rather to go trim, and deck themselves, than men?*

Is it because the nature of women is imperfect, and thereupon they endeavour to supply the want of nature with the benefit of art? For by nature, that which is ill-favoured and unseemly, doth covet and desire that which is fair and honest? Or is it because that wanting the beauty of the mind, they are forced to study how to trim and deck their bodies?

XXV. *What is the cause that a tall man is seldom wise?*

Is it because the largeness of his body doth proceed of excess of heat, and abundance of humidity? But wise men do

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think that the perfection, accomplishment, and goodness of our operation is perfected by dryness, which doth always go on, and increase untill it brings us unto our end. For the constitution of the body from its first beginning, did spring from the last humidity; but the vehemency and excess of heat doth overthrow the judgment and quietness of mind.

XXVI. *Why is a multitude of Princes or Rulers naught, as Homer saith?*

Is it because that if the Government should be turned into tyranny, it is better to be under the yoke of one than many? Or because a multitude of Rulers do seldom look to the good of the Commonwealth? wherefore it proceedeth, that if once they disagree, great hurt is like to hang over the Commonalty? It is easier for one man to be well given, than many. In the Government of many there wanteth no strife, debate, and envy: And therefore seeing that experience doth teach, that a Kingdom will not receive two, it is most truly said of *Aristotle*, that a multitude of Rulers are naught, and therefore let there be but one Prince.

XXVII. *Why have Beasts their hearts in the midst of their Breast, and man declining somewhat towards the left side?*

Is it because it should moderate the cold on that side? for as *Aristotle* doth say, man only hath the left side cold. Or is it as the Physicians do say, because it should give place unto the Liver, which is placed on the right side?

XXVIII. *Why doth a woman love that man exceeding well who had her maidenhead?*

Is it because, that as the matter doth cover a form or perfection, so doth a woman the Male? or is it by reason of shamefacedness; for as that divine *Plato* saith, shamefacedness doth follow love? It is reason that she love and esteem of him who loosed the bond of her credit and shame. Or is it because the beginning of great pleasure doth bring a great alteration in the whole, because the powers of the mind are greatly delighted, and stick and rest immoveable in the same? And therefore *Hesiod* giveth counsel to marry a maid,

XXIX. *Why are the nights in the Full-Moon somewhat warm, seeing that, according to the Mathematician, the Moon is cold by Night?*

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Whether is it because the opinion of the Peripateticks ought to be preferred, which saith that every light doth heat in that respect that it is reflected.

XXX. *Why are the nights in Autumn colder than in Spring?*

• Is it because the air is very thin; and bodies which are rarified, are very apt to receive heat or cold? as it is easily seen in water; for water heated doth sooner freeze than cold water; because it is rarified with the heat.

XXXI. *Why are our bodies sooner hurt with cold in Autumn than in the Spring?*

Is it because the bodies which are accustomed to cold, do in the spring time come to heat. And therefore the moving or mutation is natural, and not sudden. But in Autumn they hasten from heat to cold, not being accustomed, and without any mean. And nature doth not endure sudden change, as Galen saith

XXXII. *Why are men full of hair, prone and apt to the lust of the flesh?*

Whether is it because in them is presumed to be great store of excrements and seed, as it seemeth unto the Philosopher.

XXXIII. *What is the reason that men which have a small head, are naturally angry and testy?*

Is it not because that when the head is little, and the brain by consequence, the heat of the heart cannot be moderated with the heat of the Brain as it ought to be? And anger doth proceed of the boyling of the blood about the heart, through the desire of something which doth grieve and make sorry.

XXXIV. *Why doth a man hold fast together and close his fundament after he hath made water?*

Whether is it because the air doth run presently to fill that which is void, and therefore the parts of the body are altered immediately with the coldness of the air, and do quake and tremble?

XXXV. *Why have some men died through grief and sadness, and some through joy, and more for anger?*

Is it because joy doth cool the very inward guts; grief and sorrow do suffocate and choak the inward parts and cool the outward, anger doth heat both? whilst heat doth remain, the life and nature remaineth, because the soul is said to be the life and natural heat.

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XXXVI. *Why doth the voice Change in men and women when they begin to have seed?*

Is it because heat is the beginning of veins and blood, as Aristotle saith against the Physitians? and thereupon it ariseth, that because the change of the excrements of seed is made in the highest part of the body, the voice as being above, makes it manifest. And thereupon it is, that the voices both of men and women do change when they begin to have seed.

XXXVII. *What is the reason that when a pot full of boiling liquor is seething over, yet the bottom is cold?*

Is it because the hot vapours ascend upward? And therefore when the uppermost water is hot, the bottom the mean space is cold, by reason of the coldness of the water adjoynd unto it.

XXXVIII. *Why do we find the grain which we find in the Ants holes, and gathered in Summer time, gnawn at one end?*

Is it because they are directed of Nature to gnaw and consume that end where the vertue of seeding is, for fear it sprout again, lest by the sprouting and growing, they should be deprived of their nutriture belonging necessarily unto themselves?

XXXIX. *Why do children love the mother more fervently than the Father?*

Is it because they take great pains with them; or because of the great certainty which they have of themselves, as Aristotle saith?

XL. *Why is not the Father as well beloved of the Son, as the Son is of the Father?*

Is it as wise men say, because love goeth not backward, but always forward; because love doth by nature serve such a life to continue the kind, where it cometh to pass, that our natural desire neglecting things past, looketh to things to come? Or is it (as the Philosopher saith) because the Father hath somewhat of his in the Son, the Son nothing of his Father?

XLI. *Why do Children for the most part rather resemble the Mother than the Father; seeing (as Aristotle saith) the Mother doth not concur actively in the begetting of the Child?*

Whether is it because all similitude and likeness in Mankind, and Nature, are virtually contained in the seed of the Father? whereby it is for the most part the Son is like neither,

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ther, but the Grandfather, or great Grandfather; and some times like one of the Family? Or is it because this doth proceed of a strong imagination, for such are wont wonderfully to love their Wives; for as *Avicen* doth affirm, the body is somewhat changed by affections, which are called *affectus animalis*: for they do print deep impressions in natural things, as it doth happen that the child doth represent him whose portraiture and image was fore-conceived in the Act of Carnal Copulation of the women and of the men. But some of the vulgar sort, who know not the causes of things are not content with this Doctrine, but the wise agree and consent unto it. And therefore it cometh also to pass, that the blood runneth and goeth to the external parts in him who casteth conceits in his mind of red things. And so mens teeth are set on edge when they see another eat sower things: and when we see another diseased and grieved in any part, the same part in us doth languish and grieve, and often also the constitution of the body is changed through excessive fear.

XLII. *Why are Asses more nimble, as the proverb is, when they are young, than at any other time?*

Whether is it because their nature and constitution being melancholy from the beginning, it is requisite there should be a temperance with the recompence of contrary qualities; for melancholy by nature is cold and dry, but when they are young they are hot and moist? This also we see in melancholy children, they which in their childhood are of great wit, and before it be looked for are of great wisdom, so far forth that you may hope and promise any thing of them in time to come, whose wit nevertheless in progress of time, doth decay and fade. Be therefore (saith the *Greek*) naught, to the end that thou maist live; for the nature of such is most short.

XLIII. *Why be there no Asses in Pontus and Scythia?*

Is it because their nature is most impatient of cold, as the Philosophers do say?

XLIV. *Why are Clergy-men and women most covetous?*

Is it because the habit of vertue is bred of many actions, and therefore seeing that Priests want wives and children, they are forced no ways to spend their goods, and yet are accustomed to take and receive, and so become covetous? for as the Philosopher

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sopher doth say, such as every mans actions are, such doth he become. The nature of women (as we have often said) is imperfect, therefore they think it impossible fully to satisfie themselves; and therefore they gather together and keep, that by that means they may help their need? and by industry and art, they covet to get that which nature doth not give them. And for the same reason (I suppose) old men give themselves to coverousness? for wanting and being destitute of helps by age and nature, they gaze after the goods of fortune, that with them they may resist and oppose themselves against all wants.

XLV. *Why do wounds grieve less in war than out of War?*

Is it because the powers of the soul bend another way? for as the Philosopher doth say, if our mind be strongly fixed on other matters, we do not see those things which are before our eyes? or whether is it by reason of anger, which as wise men say, doth heat the internal and external parts; and as *Aristotle* affirms, with heat the Soul works all things? and therefore it hapneth, that the angry man grows cold but slowly after his wound, and therefore also doth less grieve and hate.

XLVI. *Why do we wonder at an eclipse of the Sun and Moon, and not at all at the Generation of plants and beasts by seed?*

Whether is it because our admiration ceaseth in things which are usual, and our mind neglecteth to search out the truth in such things. But that which hapneth seldom, doth stir us up to wonder; and induceth the understanding to search out the cause of it.

XLVII. *Why doth the head-ach, dulness of memory, and an evil disposition of imagination, follow the long detaining of the seed?*

Whether is it because it doth hinder and make heavy the brain by excess of seed? Or else because the seed long kept, getteth some venomous quality, and therefore the same and vapour of it doth hurt the head?

XLVIII. *Why do Priests and Monks fear and abhor death more than any men?*

Is it because they are by nature cold and melancholy? Or because they perceive themselves to perish utterly? for when they are out of this world, they neither continue in their own nature, nor in posterity.

XLIX. *Why if trees fall their leaves, and beasts their hair and feathers,*

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feathers, they receive them again, and if a man becomes bald, his hair cometh no more?

Whether is it because the time of the year doth bring that change of bodies? so that in the first change there followeth an interchangeable course one after another? and beasts receive again their feathers and hair, and trees their leaves: but baldness cometh to a man through age, and nature giveth no coming again to age,

L. *Why doth summer end all diseases?*

If force and nature be strong, it shall find air most fit for resolutions and digestion, and expulsion of superfluities, if weak and overthrown, the heat doth overthrow it more? It doth loosen weak bodies, and therefore there cometh nothing unto the sick body but death.

LI. *Why if a man put his hands into water in summer, is he colder if the water be moved, then when it standeth still?*

Whether is it because the parts of the water which touch his hands, be hot by the heat of his hands; For every agent which doth communicate with the patient in the things whereon he worketh, in doing doth suffer again; and the water being moved, it is necessary that the parts of it which are rarified, be scattered abroad, and others more cold succeed them.

LII. *Why do some which have an evil complexion and constitution of body, live longer than some others, which are of a sanguine and better nature?*

Whether is it through the bad government and order? Or because there was some hidden cause in those dispositions? for as *Averrois* saith, the number of the Elements is infinite in works of nature, the which none besides the Author of nature doth understand,

LIII. *What is the cause, as Physicians say, that the Suffocation of the Matrix, which happens to women through strife and contentions, is more dangerous than the detaining of the Flowers?*

Whether is it because that by how much the more an excrement is perfect, so long as it doth continue in its natural disposition, by so much the more it is worse when it is removed from thar, and drawn to a contrary quality? As it is seen in Vinegar, the which is sharpest which is made of the best

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best Wine. And so it happeneth, that the more men love one the other, the more they hate when they fall to variance and discord.

LIV. *Why doth the land which standeth still, seem to move unto such as sail on the Sea?*

Is it because the nutriment of the sense of seeing is accidentally moved when the Ship is moved, whereby the likenesses and similitude of things perceived are received with the moving?

LV. *Why do we love our sight above other senses?*

Whether is it (as Aristotle doth say) because it both shews us the difference of things, or because its knowledge is more drawn from material substance? Or is it because the divine force of love is placed in that sense, as Plato saith?

LVI. *Why do we not judge a staff to be broken in the Water seeing it doth so appear in the sense of sight?*

Whether is it because we perceive by the sense of feeling, and touching, that the sight doth err? Or is it because we do not judge with the same power as we do imagine with? An argument of this is, because the Sun doth seem to be but a foot round. And by a trick, and moving of the finger, one finger doth seem two, and yet we not yield they be two.

LVII. *Why do we put our hands over our eyes, when we will see any thing afar off?*

Is it because the light should not be dispersed, and so Aristotle saith, that those that have their eyes standing out, cannot see far: and contrary, such as have them hollow in their head, can see far, because the moving of the sight is not scattered?

LVIII. *Why, can some see the object before their eyes afar off, better than if it be near to the eye?*

Is it because things which may be seen, cannot be seen but by the means of the bright eyes? and weak eyes do want more plenty of light than strong eyes. But the object being put far off from the sense of the sight, in the distance from the thing seen, doth require a greater light than good eyes need; and the further the object is, the more light there is in the distance betwixt the object and the sight; or else because the motion which proceedeth from an object far distant unto a weak sense is weak, which the sense can well endure: but the motion which is hard by, is strong, which a weak eye cannot

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cannot suffer; which is easily seen in old men, which by reason of their weakness do see afar off, and can read small Letters in the light of the Sun, which notwithstanding cannot hard by them see, nor read at the light of a Candle, nor the Moon.

LIX. *Why can some see things hard by them, and cannot see things afar off?*

Is it through the weakness of the sight? For in such the power of seeing is very weak, and not united together, and therefore they had need of a strong moving; as it is also in such as have their eyes standing out, which cannot see far.

LX. *Why do such as would shoot right, wink with one eye?*

Is it because the power of the sight is the more, and better united; and therefore is better to perform this action?

LXI. *Why be such as have been long in the dark, if on a sudden they come into great light they are half blind?*

Whether is it because nature cannot endure those sudden mutations? Or else because the spirit of the sight is small and weak, and therefore is glad of the like, and is dissolved when they come into the light? Or else it is because of the desire of the light which they wanted a long time, they do behold the light too earnestly, and so their sight is weakened, as it happeneth in such as have a long time endured Famine, and therefore eating greedily, do take more than they can digest, and so by that means perish?

LXII. *Why do such as we see weakly, for the most part write small letters? It is a marvel that such as are purblind, or have a weak sight, should do that which doth belong unto such as have a good sight?*

Is it because things hard by, do seem great, and such are wont to write with their eyes hard by the paper? Or is it because they write almost winking? for if they should write with their eyes wide open, their sight being dispersed and scattered abroad would wax dim; & therefore winking they see more quick; & therefore seeing that through their winking their passage of seeing is narrow, they must of necessity make a small Letter.

LXIII. *What is the reason, that if a man will see far in the night, he shall do it better if he bow his head near unto the ground, than if he stand upright?*

Is it because the obscure vapors which make the air dark are thicker

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thicker above in the air, than they are near unto the earth, and thereupon do more hinder the sight far off in the air, than near unto the ground? Or is it because the light of the stars being dispersed through the air, causeth a reflection near unto the earth, although weakly; and so by that means doth somewhat the more make light upon the uppermost part of the earth.

LXIV. *What is the cause that if a man have committed any evil fact, he cannot dissemble it in his countenance and eyes? And therefore the Poet doth say, O how hard is it not to bewray a fault with the countenance?*

Is it because the eye is the messenger of the heart, as a glass in the mind wherein all things do shine? Or is it because it is the weakest part of the body, and the fullest of passages? and therefore all alteration which beginneth in the heart (which as the Peripateticks do say, is the beginning of all feeling and cogitation) goeth directly unto the eyes.

LXV. *Why cannot such as gape, or put forth to receive air, hear well?*

Whether is it because the end of the instrument of hearing is ended at some spiritual part, whereby it cometh to pass, that it is shaken also, and moved together with that spiritual or aërious instrument, as oft as it doth move the air? for it is moved, when it doth move? Or is because much breath or air doth outwardly enter in at our ears when we gape, and therefore moving and sense cannot be perceived? for it doth thrust at the ear. The noise is the air, or some affection of the air, and therefore when the air within the ear is weakened, and the air outwardly doth enter in, of necessity the one doth hinder the other; and that which is within, doth beat out and expel that which would come in.

LXVI. *Why can nothing be the cause of its own generation and corruption?*

Is it because the mover must be before the thing moved, and the ingenderer before the thing ingendred, and that it is impossible to be before it self?

LXVII. *Why are womens bodies looser and softer than mens bodies, and lesser? and why do they want hair?*

Is it by reason of their monthly terms? for with them their superfluities go away, whercof hair would grow, and where the

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the flesh should be filled, and therefore they are lesser; and therefore all their veins are more hidden than mens veins.

LXVIII. *What is the reason, that when we think upon an horrible thing we are stricken with a fear?*

Is it because the conceit, thinking and understanding of things, have force and vertue? For Plato saith, the reasons of things have some affinity with the things themselves: For the image and representation of cold and heat, is such as the nature of the things are, as the Philosopher had said: or is it because when we comprehend any dreadful matter, the blood runneth to the internal parts, and therefore the external parts are cold, and shake with fear.

LXIX. *Why cannot a company or multitude of women be led under a Captain, without a tumult?*

Is it because they are unconstant by nature; And for the same reason the Philosopher would appoint no Shepherd over Goats, because they are unstable and unconstant by nature: Or is it because a woman is more prating, worse tongued, and more back-biting; also complaining and less wise, and more lying than a man?

LXX. *Why doth a Raddish root help digestion, and yet it self remaineth undigested?*

Whether is it because its substance consisteth of divers parts for there are some thin parts in it, which are fit to digest meat, the which being dissolved, there doth remain some thick and close substance in it, which the heat cannot digest.

LXXI. *Why do such as cleave wood, cleave it easier in length than overthwart?*

Whether is it because in wood there is a grain, if it be cut in length, as it is to follow the hair in cloth, which doth go on in length, whereby in the very cutting, one part draweth another fast by it?

LXXII. *What is the reason, that if a spear be stricken on the end, the sound cometh sooner to one which standeth at the other end, than to one which standeth nearer to him which striketh?*

Whether is it because (as it hath been said) there is a certain long grain in wood directly forward, filled with air; but cross, or on one side there is none? And therefore a beam or spear stricken on the end, the air which hidden receiveth a sound

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found in the aforesaid grain, which serveth for the passage of the air. And therefore seeing the sound cannot go easily out, it is carried unto the ear of him who is opposite unto him, and those passages do not go from side to side, and therefore the sound cannot be distinctly heard.

LXXIII. *Why be there not famous men in every faculty in our age?*

Is it because the nature of man decayeth in our age? and as *Solinus* saith, Succession being corrupted, the progeny of our age is worse by birth? Or is it because such are not esteemed of Princes; For take away the reward due unto vertue, and no man will imbrace it? Or is it ordained by nature, that men do always complain of the present time?

LXXIV. *Why are flatterers in great credit with Princes?*

Is it as *Plutarch* saith by the authority of *Plato*, because they love themselves? Too much immoderate love of themselves causeth them to admit flatterers, and to give them credit? Or whether is it, as I think, because they want the light of reason? for among birds, some through the corruption of their nature, delight in stinking meat; and whom the day doth blind, the night doth lighten.

LXXV. *Why have Philosophers, for the most part, in these days evil conditions?*

Is it because they are not esteemed of Princes? Or is it because of the Philosophy it self, they are accused of crimes, and think therefore that they receive such a reward, and therefore they are compelled to forsake vertue, and follow vice; Or else deceived through error, they think they have challenged all the garments of Philosophy, when they have snatched to themselves some of her rags; and therefore they are by us rather called Sophisters than Philosophers; for certainly, a Philosopher should be of a stout courage in all respects, and in all fortunes; for they reason badly, and therefore they should give themselves unto philosophy, because they would be honoured of Princes. And their desire is not ruled by nature, but by errors, and they are thrust forward with streams of false credulity.

LXXVI. *Why do such as are angry wax pale in the beginning and afterwards red?*

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Is it through the desire of revenge for that which grieveth, that the heart and blood are called unto the heart, and therefore of necessity the external parts are pale? when they are determined to put that in execution which they desire, the heart and blood do run into the outward parts, and then they are greatly to be feared and taken heed of.

LXXVII. *Why do Serpents want a yard and bones?*

I. it because they want thighs, and therefore do want a yard, and they want stones because of the length of the body.

LXXVIII. *Why can Serpents turn their heads backward, and the rest of their body stand still?*

Whether is it because (like unto those creatures which are called *Insects*) they are made of a winding composition, and have their joynts flexible, and made of gristles? and this is the reason in Serpents, and also because they may avoid those things which hurt them; for having no feet, and being long of body, they cannot easily turn them, whilst they bow against those things which are behind them. It were to no purpose to lift up their head, if they could not exercise anger.

LXXIX. *Why is the Camelian changed into many colours?*

Whether is it, as it seemeth unto the Philosopher, because he is the slenderest of all footed beasts engendred of eggs, and is stark cold for want of blood, the cause is to be referred unto the quality of the mind? Through over-much coldness he is of so many colours; for it is the property of fear to bind fast through want of blood and heat.

LXXX. *Why are the thighs and calf of the legs of men fleshy, seeing the thighs of beasts are not so?*

Is it because men only go upright, and therefore have them so to sustain the upper parts? and therefore nature hath given the lower parts corpulency, and hath taken it away from the upper; and therefore she hath made the buttock, the thighs and calf of the legs fleshy.

LXXXI. *Why do very fat beasts wax old quickly, and soon die?*

Is it because they have but little blood, seeing that much of it is drunken up with the fat? and those which have but a small store of blood, are aptest to die; for death is a want of blood.

LXXXII. *Why do men only go upright?*

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Is it because he is most hot of nature? Or is it because his substance is divine? the part of divine things is to understand and be wise: which could not easily be, if a man had a great massy body; for heaviness doth make the understanding and the sense slow.

LXXXII. Why is the flesh nearest the bone sweetest?

Whether is it because it receiveth temperature through the quality of the contrary? for the nature of flesh is hot and moist, and the nature of the bone is cold and dry. And therefore betwixt contrary extreames there must needs be a mean.

LXXXIII. Why is it forbidden to talk while we eat?

Whether is it that before the Wezon, by the which we eat and drink, the artery is put, by the which air and breath goeth into the Lungs, and this artery is molested with meat or drink entering into it? Yea, Nature hath provided for this a little flap which doth cover the artery, the which is opened when we speak: and therefore meat can easily get into it, whereof followeth choaking and coughs. Or whether is it because speaking doth hinder the chewing of the meat, and therefore the meat is not well digested?

LXXXIV. Why doth wine mingled with water, after a sort make a man sooner drunk?

Whether is it because the water doth cause the wine to run hither and thither, and penetrate the more? And that is the reason that Must, as *Avicen* doth say, doth sooner make a man drunk than Wine; because that the water mixed with it doth make it penetrate.

LXXXV. Why are Noblemen and such as are placed in high dignity troubled with the Gout?

Is it because they cram divers sorts of meats even to the full? And the Physitian doth affirm, that there is nothing worse, than at one time to take divers sorts of meat, and then to be a long time in eating and drinking of them; for the first is half digested before other come, and therefore such as remain long undigested, breed raw and naughty humors, which run into the joynts? Or whether is it by reason of overmuch pure Wine, and too much idleness, and exercises done out of due season; or is it through the overmuch use of lechery, which wasteth and killeth digestion?

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These things are greatly to be feared, *Plotinus* saith, lest we become stocks or brute beasts : for like unto brute beasts they are given to gluttony and the belly.

LXXXVII. Why are they taken with sudden death which are laden with overmuch fat, and specially when they are young?

Whether is it because their veins be straight, and therefore are stopped with the fat, that the spirits cannot have free course? whereupon the heat which is bred within them doth kill them, because they cannot receive the cooling of the air. And therefore (as the Physicians do say) they would greatly fear lest their veins break, or their natural heat be suffocated.

LXXXVIII. Why can such be hardly let blood that are very fat, and that with danger?

Whether is it because they have very slender veins, and those hidden? Or else because all fat is without blood, as it seemeth unto the Philosopher?

LXXXIX. Why (as Aristotle doth affirm) are the sensible powers in the heart, yet if the hinder parts of the brain be hurt, the memory payeth for it; if the forepart, the imagination; if the middle, the Cogitative power?

Whether is it because the brain is appointed by nature to cool the heat of the heart; Whereof it is, that in divers of its parts, it serveth the powers and Instruments of the heart; for every action of the soul doth not proceed from one measure of heat.

XC. Why doth it happen for the most part, that children which are not lawfully begotten, are whiter, and subtiler, and liker unto the Parents than others?

Whether is it because the powers of the mind of the Parents are very vehemently bent in the act of carnal copulation? Such do love exceedingly, and therefore seeing that their affections be not distracted, the child by nature shall not vary from them. And this is most true, when they go together with tranquillity of mind : for if it be with fear or grief, the children be unlike.

XCI. What is the reason seeing death is by nature, yet it is more terrible unto men than unto all other living Creatures?

Whether is it because the nature of man, as the Philosopher saith, hath purchased the mean, not only of living, but also

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of well living? For mankind only is partaker of supernatural things: other living creatures have regard unto that only which they see, wherein as *Pliny* doth say, the goodness of nature doth suffice, which is to be preferred to all other things; and therefore they think not of glory, wealth, ambition, nor of death. Wherefore seeing that man is deprived of a more noble life when he dieth, death is unto him above all other most grievous. Or is it because other living creatures regard only things present, and man only foreseeth things to come?

XCII. *Why if death come by nature, it is judged the last of all terrible things?*

Whether is it, as it seemeth unto the Philosopher, because it is the last, and that nothing else doth seem good or bad unto mortal men? or is it because we inveigh against nature, who is the beginning of necessity, and not the nature of the form, or the end from which that which is good is deprived, which all things do desire? Or peradventure doth death seem the most terrible of all things, because they mean so to live, that they thought to be immortal? Or doth it strike a fear only unto them which live a naughty life? For unto such as live a vertuous life, death is not grievous, as the Poet saith, Death is the end of a Prison obscure. Or be they grieved, because they are seized on with a violent and untimely death? For such as die when they come unto old age, do for the most part die without fear and grief; for truly nature is as a candle ready to be put out. And as *Plato* doth say, of all sorts of death that which by nature doth come, is most light, which happeneth rather with pleasure than dolour.

XCIII. *Why seeing that a man is the end of nature, is he of so short life in respect of other living things, as Poets do complain by the example of the Crow?*

Whether is it because that those our makers consulting of our kind, the perfection of frail things is not measured at all by continuance of time, as the Philosopher saith? Is it far better to be very joyful for a short space, than a long time meanly, or lightly glad. Or whether is it because that nature of things possible doth always make that which is best? And it could not be that the constitution of mans body could be
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convenient and fit for long continuance, and the operations of the soul. For by the Authority of the wise, there is required another temperatue; first for life, and then for the works of life. Whether should they make use of a long life, and the worse? or of a shorter, and the better? It seemeth good unto them (saith Plato) to prefer a short life and a good, before a long life and a bad.

XCIV. *Why did nature bring forth men naked, and without defence?*

Is it because nature doth make nothing without reason, or in vain? seeing that a man is most wise, he can use many instruments to help himself withal. The hand is not one instrument, but many. And therefore they think amiss, as the Philosopher affirmeth, which saith that a man is the noblest of all creatures, and yet in worse case than all, because he is naked and weaponless: for other creatures keep their common help, and cannot change it by any means, but man can change his weapon at his pleasure; for the hand is a hoof, and horn, and spear, and sword, and every other kind of weapon. Seeing then that a man is endued with understanding, and hath a hand given him by nature, he cannot complain of his nakedness and condition. Whether was the excellency of the substance of which mankind was made, fit and convenient for horns, and such like?

XCV. *Why is wine put in a vessel of water mingled with Salt-petre, very cold?*

Because Salt-petre is presently *actu* cold, though it have power to be hot; and the water mingled with it is colder then the wine. Now a thing which is more cold, doth make a thing less cold more cold than it was; and therefore the wine put into such a vessel is cooled the better. I have sometimes answered, that it proceedeth of the *Antiperistasis*, that is, by a repulsion, whereby heat or cold is made strong, and every contrary by its contrary: but Salt-petre is not hot *actu*, but in *potentia*; and therefore having power only to be hot; and is not hot indeed, it cannot work by that contrariety; for it is *actu* cold, as the feeling can judge.

XCVI. *Why hath Philosophy seemed a wonderful and divine thing unto some?*

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Whether is it because that as a Medicine is the perfection of the Body, So Philosophy is the perfection of the Soul, as *Themistius* saith? Or is it because the body of Philosophy doth encrease and further us in our duty towards God, and make our zeal more fervent? For those things being perfectly known which God hath done, he turneth all mens hearts and minds to praise and admire him: this admiration, Charity, Faith and Hope, do follow. Or whether it is because it doth breed great pleasures and delights through the certainty and sincereness of it? Or because it doth make us like unto God.

XCVII. Why do Tyrants hate Learned men?

Is it by reason of the unlikeness of Manners? For so it hath always been, that wisdom hath been injured by evil manners. Or do they fear lest they should breed sedition and tumults in their Cities where their doctrine had authority? Or because they do tax and reprehend their conditions? For as *Plato* doth say, Poets have great force and skill either to praise or dispraise: and every man that hath a care of his fame should take heed how he offend a Poet.

ALEXANDER APHRODISEUS

His Problems.

I. **W**HY did Homer call man Polycrotaphus, of the hoyness of the Temples.

Because there for the most part their gray Hairs begin; because the fore-part of the head hath more moistness and flegm in it than the hinder.

II. *Why is only the fore-part of the head bald?*

Because it is loose and soft. And therefore seeing the hair doth want nourishment, by reason of natural driness, it easily falls into those parts; it doth not stick as it doth behind, where the head is moist and thicker.

III. *Whereof doth baldness proceed?*

Baldness proceedeth of driness; and therefore such as have curl'd hair, are soonest bald, by reason of the dryness of their head, and are gray-headed very late by reason of the dryness which consumeth the superfluities of flegm; they

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are watchful above others, because sleep cometh of humidity. Children do shew this, because they are most moist and sleepy, and full of excrements. Such as have softer hair, as such be which have a moist head, are of a contrary disposition; for they are very seldom or never bald. And sometimes baldness happeneth by some effect of the kind or stock, as the Gout, and some other diseases: such are sooner bald, and are sleepy, and have much superfluity. The hoary hairs be whitest, because they follow the colour of flegm from whence they proceed. They be sometimes almost yellowish, when the flegm is mingled with burnt choler.

IV. Why are cold men full of excrements and watchful?

They are full of excrements, because they are cold and weak by nature, and therefore digest badly, and so gather many excrements by the pores and open passages of the body. And seeing they be dry, they are also waking and watchful; and also because their bodies be hard and stiff. And children notwithstanding the interlacing of their pores, and soundness of their bodies, are moist.

V. Why have Children which are moist by nature, and full of excrements, no hoary hairs?

Because they are moist and hot, and flegm is moist and cold, and have the fore-part of the head as it were fleshy and thin, whereby superfluities are voided; and that with age doth grow hard, and bony and thick; and therefore nature doth afterwards give it seams, by which superfluous vapors should breath out and evaporare.

VI. Why do women and gelded men grow hoary and gray?

Women, because they are cold by nature, and have small exercise, do gather many superfluities, and especially then when their flowers cease. And gelded men, because they yield no seed, but do yield superfluity which should breed seed, the which with the blood doth spread it self over all the body, and hath the nature of flegm.

VII. But why do they want hair?

Women, because they be cold, and have thick passages in their bodies; for cold doth thicken, and therefore there is no way by which hair should pass. Gelded men, because they are moist, and above measure full of excrements: and

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therefore as no herbs can grow in such moist places, so neither in dry and stony; whereupon baldness doth follow.

VIII. *Why are gelded men for the most part crooked legg'd?*

By reason of their superfluous humidity they have soft and wet bodies, and therefore weak; and therefore seeing the things cannot bear the burthen of all the body, they are wreathed and crooked, as a bull rush doth bend if a weight be put on it, for that which is hard and dry, is strong, and can resist; and that which is soft and moist is weak, and cannot resist. This is declared by a Wood, and Officers, and also Men. Also with baths and drink men are much weakened, and with a moderate diet are dried, and become stronger unto any action. Whereof it ariseth that gelded men are after a sort women and weak, and given to wine and drunkenness, and full of flegm; for being cold they covet to induce the contrary quality; and wine by nature is hot. The *Ethiopians* being of a drier nature, have curled hair, and are lean and strong to work.

IX. *But why have they a sharp and shrill voice?*

Again abundance of humidity filling up the artery, doth make it strait; therefore the breath going by a narrow passage doth cause a sharpness in the voice. It is plain that they abound in humidity, because they be light, and their paps grow great, like unto women, and have swelling eye-lids, and soft white hair.

X. *Why do some gelded men after a sort covet Women, and sometime love the act of Venery?*

Because that some are imperfect gelded men, and some have a hot liver, and have large vessels and conduits of seed, and therefore imagine the use of carnal copulation. They cannot perform that which they desire, because their privities want liveliness; for that spirit which doth puff them up doth always fail, and is weak; that spirit rising of the seed through the passages of the seed, is carried from those parts which are about the loins. But in children those conduits of the seed are stopped up.

XI. *Why seeing there be three simple uniform humors, yet they do not breed three simple diseases, but more?*

There are double in every one, continual or whole, and broken;

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broken; for the differences of diseases do not proceed only of the humours, but also of the places: A hot, thin, and sharp humour doth breed a sharp and short, and a hot Feaver; a cold and a thick humour, a long and a dull one. So of wood, that which is hot and dry, as Bays, Olive-trees, causeth a great flame, and is quickly burned: green wet wood makes a small smoaky fire, and is long a burning.

Again, if the place be large and spacious, it doth sooner, and that greatly inflame the humour, because when it is heaped up together, then it being once full rotten, is put on fire. But if the place be narrow and small, seeing it cannot contain all the humour but by piece-meal, and therefore cannot ripen all together, it will stir up the small Feaver, but such a one as shall burn long. Put then the nature of the humour unto the place, so shalt thou find all the differences of Agues, which rise of the corruption of the humours. If yellow choler doth putrifie in great receptacles, as the veins and arteries, seeing it is hot, it doth kindle a most sharp, hot and short Ague, which is called a burning or heat. But if cold flegm doth putrifie in the small veins and arteries which are about the flesh, it doth cause a long and languishing Ague, which they call a Quotidian. But if yellow choler do corrupt in small receptacles, it doth cause a small and short Ague; but yet some time longer than a heat, which we call a Tertian or sharp Ague. But if flegm doth putrifie in great places, it will cause a shorter Ague, than a Quotidian. And likewise black choler, if it putrifie in great veins, because it is burned almost all at once, causeth a short Ague by forths; if in small it breedeth a long Quartan: for there do concur a cold and a thick humour not fit for alteration, and a narrow place, which will not suffer all the melancholy and anger to be consumed at once.

XII. *Why do some when they are ashamed sweat under the arm-pits?*

Because the pores are thin in that place: nature when any thing is worthy of reverence and honour, doth flee with the blood into the veins and arteries, and they being full do distil, as it doth happen in such as are merry, being their body is thin, especially the arm-pits.

XIII. *Why*

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XIII. Why do such as are afraid wax pale?

Because our nature, and that power, which hath a care of our body, will suffer nothing done extreemly unto us. And as we do run within door to keep our selves from danger; so nature looking unto her safety, conveyeth her self into the body as much as she can, and carrieth her blood with her (which she hath for her nourishment and waggon) and that blood also which is best, and that is the blood which doth die our skin with a red purple colour.

XIV. Why do they tremble also?

Because that *virtus animalis*, that is certain spirits which arise about the heart, with the consent of nature, do forsake their sinews which before they kept, and they be it which keep the body from trembling; whereupon it ariseth that such are loose in the belly, and unawares do make water. For those muscles and sinews which do stop the course of excrements, being become weak, then give leave for superfluities to pass.

XV. Why do such as are ashamed wax red?

Because nature of her self, as it were with a certain conscience, like unto a noble Virgin, reverencing that which is worthy of honour, modestly doth draw her self into the secretest part of the body, whereby the blood is moved and poured abroad, and therefore the skin is dyed with the colour of blood: O hers say, that the blood is cast over them by nature like unto a veil, as we (as it were admonished by nature) do put our hand before our face.

XVI. Why are some dead with fear?

Because the natural power fleeing above measure, and retiring it self with the blood into the inward parts of the body, doth choak and put out that natural livelihood which is bred near the heart, and therefore doth bring death. By the same reason when much oyl is poured on a sudden into the flame of a lamp, it doth put out the flame: The blood which is in the heart, is compared unto the flame of a candle or lamp. Some for the same cause have died with grief; as fire covered with a cover is put out; so the inward motion of the natural heat is resolved.

XVII. Why are some overcome and dismayed with drunkenness?

Because abundance of wine doth suffocate and choak with

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its heat our natural and lively vertue. And it happeneth chiefly unto those whose natural heat is weak and small. That which is strong can much resist, and in space of time can overcome and digest the abundance, as a great flame can endure much oyl to be poured on it.

XVIII. Why do old men shake and tremble?

Because the sinews of their natural vertue and force, and the muscles of the parts of the body, when they receive not sufficient motive vertue, do not endeavour to bear the burthen of the body. The shaking is, because the weight of the body draweth some part of the body downward; and another power which is called *Animalis*, upward: when this is done without intermission, and one after another, it causeth quaking; then cometh in bowing and stooping to the ground, and so instead of a rafter to uphold the building, they use the help of a staff, and for the same cause they void their excrements and urine on a sudden.

XIX. Why do not Pepper and Mustard-seed heat the belly, if they be swallowed whole, but if they be broken they do?

Because those things which have their qualities in power only, and not in action, want some external help to bring their vertue and power into action; and therefore being bruised and made small, and entring into the passages of the body, do work their effect through their inherent heat. And the like is of other qualities. There be some things which have their qualities in action, as the water *Prisan* and Milk, which are to be drunk presently; they are moist and cold, and want no other external help to cool and moisten, but do work immediately. Likewise the salt and the earth, both virtually and presently, and in the sight are dry. Lin-seed and bread are dry in imagination and sight, but moist in vertue and act. The sea also, and brine pickle, and *aqua vite* are moist in imagination and sight, but are dry in vertue and action.

XX. Why do some see nothing in the night, and see in the day?

Because they have a thick spirit of seeing, and white cannot pierce the air unto the thing which is seen, and in the night groweth more thick, because it is made more cold with the absence of the Sun. Or else, as others say, because that in the day time it is made fine and attenuated with
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the pure and hot air, and is thickned in the night, The contrary unto this doth happen in a Cat and an Owl; they seeing nothing in the day, and see very well in the night; for they have a very clear and thin sight, the which when it doth somewhat thicken in the night time, is most fit to receive its object in the day time; and in a clear light, being exceedingly attenuated and made thin, is resolved and scattered. Whereupon Lions, which are almost of the like quality, cannot go in the Sun; and if they see fire in the day time, they flee from it. A man may see the ball of their eye very bright, and they have the moist of their eyes very clear.

XXI. *why doth a sudden vehement joy somewhat dismay a man and astonish him?*

Because when the vital vertue, and inward natural heat is immoderately carried to the outward parts, it is cast out and resolved: and therefore such sweat and grow red, because the blood is present. The natural heat and fire, both by reason of its heat, and also because it is out of its place, moves upward, and then for desire of food and nutriment downward again. And when one of these movings do perish and fail, the man perisheth and faileth also.

XXII. *why do such as are in grief, and in love, and in anger, sigh very often?*

Because that the mind of such as are grieved is turned into the cause of grief and sorrow; and the mind of such as covet, to that which they do covet; and the mind of the angry, unto that which causeth the anger; then the mind being intencive upon that whither she moveth, doth after a fore neglect and forget to give motive vertue and power unto the muscles of the breast; therefore the heart not receiving air by the opening of the breast, and by consequence neither blowing nor cooling, nor yet casting forth by shutting and closing, and sighing, superfluities which are bred of the aduersion of blood, whilst it doth fear suffocation; the heart (I say) doth force the mind; and giving warning that it would give more motion to the muscles, and cause greater breathing in and out; and that he would take in more store of cold air; and thrust out more excrements; and that by often
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small breathings he would perform that that one great one doth effect. And therefore men of old time called the word *spiro*, sighing, of the straitness of the breast. They sigh long and often, because the mind is always upon that which causeth the passion; nature doth force the soul to send in by the heart more motive vertue to the muscles of the breast. It is most evident that we do breath in and out by the arteries. Under the name of Pulse, the opening and shutting, the receiving and casting out breath is comprehended.

XXIII. *Why is a Sausage hardly digested?*

Because that through its lightness it doth swim in the belly above the moist meat, and doth not conjoyn with that meat where concoction is made, but swimming at the gizzard where appetite is and not digestion. If you cast it into the water out of a mans body, it will not sink, but swim above the water. For whilst meat is minced in it, it receiveth a light air, which causeth it to swim above moist things; and therefore it is limber and flaggy, because it is participant of air.

XXIV. *Why do we make hot water before we go into the bath, and after that we have been long in the bath, our Urine is cold?*

And this is so in comparing it to some other. Urine is of a lukewarm quality, and moderately hot; therefore out of the Bath, because our body is cold, the urine we make is as it were in comparison hot: yet in the Bath, because the body is much hotter than the urine, therefore the urine doth seem cold, though it be hot after a sort. The which doth appear by that, that he who goeth into the Bath to get heat, if he only go into hot water, it seemeth very hot, but if already heated to go into it, it doth not seem so hot.

XXV. *Why do we find sweet fresh water when we dig near the Sea?*

Because that in the Sea, that water which is thinnest and purest, is fresh; that which is thick, is salt; the thin water therefore which runneth through the passages of the earth, is hidden in the earth, the which we find when we dig it is fresh, because that in the winter it is drawn up into the air, the thick and dried water doth become; but in the sea-shores because the passages be broad and wide, salt water is found.

XXVI. *Why is well-water warm in winter, and cold in summer?*

Because

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Because every thing doth flee from its contrary, as from an enemy. It is manifest that cold is contrary unto heat, and doth destroy it: and therefore because in Summer heat doth occupy the air, the cold doth flee into the bowels of the earth, and therefore causeth the water to become cold. But in the Winter, because the cold hath greater sway in the air than the heat, the heat fleeth to the same place, and so doth heat the water. For it is against the law of nature, that contraries should dwell together in the same place and time.

XXVII. Why are men of small stature commonly wiser than the tall?

Because in small men the soul is well joyned and compacted together in the whole body: in tall men it is extended in length. And therefore *Homer* doth describe *Ulysses* to be short and wise, and *Ajax* tall and a fool.

XXVIII. Why do we cast water in a mans face when he doth swoon, to make him come to himself again?

Because that through the coldness of the water, the heat may repair to the heart to give strength.

XXIX. Why do many fools beget wise and strong children?

Because fools when they are in the act of copulation, yield very much unto pleasure, and have their mind drowned in the body; whereby it cometh to pass, that their seed being participant of great vertue, as well reasonable as natural, doth cause such as are begotten to be wiser. But it happeneth other wise unto such as are wise and learned: for their seed wanteth much natural vertue, and the force of wisdom maketh them to think on some external cares, which weakeneth their intention in the act of Venery.

XXX. Why doth not the dung of wild beasts stink so much as the excrements of men?

Because they use dry and superfluous meats, and have a great exercise; yea, the dung of some beasts is of a good savour. But of all other, the dung of a man doth savour worst, because men do use many moist meats out of season, and more than is needful. Also they are less hot than other living creatures, and not so much exercised; and therefore seeing that it is not full digested and evaporated by reason of the abundance, but doth corrupt, therefore it is of a bad savour.

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XXXI. *Why doth mustard and such like sharp things blister and exulcerate the skin, if it be put on it, and when it is swallowed, doth not exulcerate the belly?*

Because they are dissolved with moisture of the body, and because they are changed and digested before they work; and upon the skin which is thin, they have more time of work.

XXXII. *Why doth barley-bran, seeing that it is cold, dissolve flegm?*

Seeing all cold doth make thick and hinder resolution. Truly I think, not because it doth cool, therefore it doth loose and dissolve, but because it doth cast out, it hath a vertue of dividing and expelling humours. And there are divers such kinds which work contrary unto themselves accidentally and by chance, not principally; as the nature of Bees which are hot, doth weaken an Ague; not because they are hot; for the like doth increase his like: but because they do expel naughty humours from the veins, and do provoke urine. So *Flowers de luce* and *Hysop* are good for the Plurisie, although they be hot, yet they do cut those humours which breed betwixt the skin, and which gird the side. So the disease which is called *Titanus* is cured with hot water poured on it, which is bred of cold humours: it doth heal it, not principally, and of its own nature; but because it is heated.

XXXIII. *Why do some men puff and blow when they make water?*

Because the bladder when it is full of water doth swell, and straiten the Gut which is called the right Gut, and when it is emptied, a wind which is in the Gut desireth passage out; some think that there is an agreeing of the parts in avoiding of the Urine,

XXXIV. *Why do some men gape when they see other men gape?*

Because the nature of living Creatures, and especially of such as want reason, hath a likeness of consent and affections: and therefore when an Ais pisseth, the others, do stale likewise,

XXXV. *Why doth one which is blear-eyed infect one which is whole, and yet he which is whole cannot heal the blear-eyed?*

Because the eyes are soft and moist, and exposed unto affection; also health receives an alteration of a small cause, and
sickness

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sickness of a great and vehement; and that which is in a mean is easier changed of that which is vehement, than contrariwise the vehement and great of the temperate and mean. And therefore bitterness being a vehement and great disease, doth easily turn health, which is a temperate and moderate state of the body.

XXXVI. Why do many and an apple seem greater in the water than they be?

Because the water doth deceive the sight, and the water about them maketh them seem of one colour: So the Sun and the Moon, and the Planets, when they are seen near unto the point of their rising or falling, seem to be of greater bigness, than at other times: for they alter the air about them with their quality.

XXXVII. Why when a man doth give a blow with a staff far off, see we the blow presently, but we hear the sound after, although the sound and the blow be together?

Because we have a sharper and quicker sight than hearing; and therefore the sight doth anticipate the strokes; and the hearing which is grosser, doth hear the sound slower. And by the same reason we may resolve the doubt of thundering and lightning; for we see the lightning before we hear the thundering, although the thunder be first, or at the least together with the lightning, and yet the sight being more subtil than the hearing, doth see the lighting before the ear doth hear the thunder.

XXXVIII. What is the reason, seeing we are naked on our face and clothed over all the body, yet we can endure cold better on our face than on our body?

Use is the cause of it.

XXXIX. What is the reason that yellow choler, which all a mans life time is contained in a place which is called the bladder of choler doth not eat out the same bladder, seeing that it is subject to many alterations; and yet if it fall into the tooth but a small time, which is a body which cannot easily suffer, it will presently eat it out?

Because Nature hath so wrought, that it should only remain in that body and not hurt it. The name of nature is a greater remedy against grief, as by many examples it can be proved. The infant is in the Womb of the mother nine months, and
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giveth no grief of heart unto her; but if a light wind should breed there, it would presently cause a sharp disease. The rough artery is only a receptacle of wind; but if a crum should go amiss in it, it caueth either choaking or a vehement cough: which could not be so if nature had not so prescribed.

XL. why do some men go into a bath athirst, and come out without thirst? and some contrariwise go in not athirst, and come out athirst?

Such as are dry do wax moist in the bath, and quench their thirst; for this cometh of driness. But those which are moist and not thirsty, if they stay long in a hot air, are athirst, because their moisture is dissolved and spent with sweat.

XLI. why do some belch unsavourily after the eating of a Raddish, and some not?

They whose stomach and belly doth not abound in naughtiness and superfluous humours tending unto flegm, they have a sweet breath: but they whose stomach doth abound, they have an unflavoury breath. A Raddish is hot, and doth cut and attenuate the grossness of humors, and doth stir up a wind of the humors, the which it doth cast out by belching; so dirt which is not stirred, doth not savour at all; but if it be stirred, yieldeth a strong stench. Those which think that a Raddish is of a stinking quality of it self, because it doth stink out of the body if it be long kept, without doubt are deceived; for all men which eat of them, would have unsavoury breaths if it were so.

XLII. why in every great cold doth the fingers and superficial parts of the body wax black and decay?

Because extreame cold doth drive in the natural heat into the body, and so the outward side of the body doth first grow wan, then black, and almost like a corpse. They do fail and decay, because that nature being intentive in the other parts of the body, doth joyn unto it self, that which is hot and doth drive away, and cast out that which is decayed and naught. The superficial parts are altered, because they be not very fleshy, nor very hot: for in trees, those leaves fall soonest in the Winter, which are least hot in nature, and there-

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fore are weaker and thinner. Those which say that the natural heat doth presently, in the beginning, flee from the cold, as it were from an adversary, into the internal parts of the body, and then gather it self again, and strengthen it self, and as it were with a supply help those parts which are altered, and either because it was on a sudden, or because great store of heat doth run back again, and so burn the outmost parts of the body, because that staying there is much of it gathered together. Those, I say, without all doubt do think amiss which say this.

XLIII. *Why are such in great pain, which being very cold, do beat their fingers ends, or outermost parts of the body?*

By reason of the sudden change of quality, much cold doth change into much heat. Whatsoever is suddenly done, doth bring grief to nature. Whatsoever is suddenly agreeing unto nature, doth delight nature; for mans nature doth consist much in the manner of his disposition.

XLIV. *Why do such as eat Pepper, or great morsels of bread, yex.*

There is a proportion in them with those things which do outwardly over-charge us, or cause us to have a pain. Pepper and choler hath a proportion with thorns; but flegm and bread with a heavy stone. Such as have a stomach not full of superfluities, not hot and sensible, they are quickly bitten with a sharpness of Pepper; they do stir the stomach to avoid and cast out that which grieveth, and so do yex. But such as have a cold stomach, and full of flegm, and feed not so well, they do not yex so soon. The like hath hapened unto them, which swallowing great gobbets of bread, the stomach is oppressed with the abundance and greatness of bread; And nature doth not suffer her parts to be idle, when she feeleth any thing that doth hurt her; and therefore Pepper with his biting quality, which hath a proportion with yellow choler, or flegm oppressing within, do cause yexing.

XLV. *Why do such pains as be in the nails, grievously torment us?*

Because that the sinews which are in the fingers, with a peculiar kind of superfluity do breed the nails, as the teeth are in the gums. Therefore when the sensible vertue of the
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sinews goeth to the extreame parts, and is there gathered together, like water flowing into a valley; without all doubt the greater alteration is, the greater grief is felt.

XLVI. *Why doth a great deal of bread devoured hastily, by staying for breathing, drive away the yex?*

Because that pressing the stomach, and driving it into a narrow room, it causeth that the meat which is hardened in it, be pressed out into the belly; and the stomach being discharged doth stay the yex.

XLVII. *Why do such as yex, give up yexing, when they hear of any sorrowful matter?*

Because they are intentive upon the sorrowful news is brought, and therefore neglect to move their breast. And again, seeing we do then hold our breath, and so cause it to grow great in us, it doth stay the yex.

XLVIII. *Why do pictures, to them which are near them, shew their colours plain, and to those which stand afar off, shew some hollow, and some bending and hanging?*

Because the force of seeing is dissolved and stretched in a long distance, and therefore we cannot see exactly the skill of colours, but do see the white colours bending, and the black hollow. For white doth shine outwardly, and moveth it self unto that which is bright; but black as being dark, inwardly.

XLIX. *Why if cold water be an enemy to the sinews, is not hot water a friend and good? but yet that also is hurtful.*

For if such a thing is hurtful, the contrary is profitable; for contraries cannot work the same way upon the same thing. But in truth hot, as hot in its own nature, is not hurtful unto the sinews; but in that it is hot and moist. Such as have their sinews hurt, the sinews because they are quick of feeling, want much fastning and hanging; for they are dry of their own nature: but the moistness which is contrary doth mollifie them, and slacken them, and putrifie them. And so it is plain, that heat it self is not hurtful by nature; a draught of hot oyl is good, because it hath a binding nature.

L. *Why if apples be naught because they be cold and moist, is not water so too being of the same quality?*

Because water is more subtil than apples, sooner purged;

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ged, and therefore it doth not hurt so much : yea, it doth sometimes strengthen the body.

LI. *What is the reason that those things which have hard concoction, and of gross humor, are more easily digested, as Beef, than those which are of an easier digestion, and not of so gross humor, as Fish?*

Some attribute this unto Custom : some think the cause to be in some secret hidden quality of Nature : some say that by reason of exceeding heat, those meats which are more digestive than is requisite, as being more mutable, or burnt and consumed through the great force of heat : and those meats which are not apt to digest as being hard to be changed, seeing they be not much changed, are only digested. So straw, as being apt to be altered with great fire, turneth into ashes presently, but the like is not in the Oak, which is orderly burned.

LII. *Why are such as are sick in pain, pale outwardly?*

Because that nature, as we have said, doth penetrate even unto the heart, together with the blood. And it is the blood which doth heat the superficial parts, and makes them thin and clear.

LIII. *Why doth cold Wine grow in Ægypt, which is a hot Country?*

For the same reason. Again the cold doth flee to the roots of the Vines and doth make them cold ; for the Vines are more apt than other Trees to receive alteration.

LIV. *Why doth hot water cast into a Well, cause the water to be very cold?*

Because the cold which is in the well doth resist the heat ; and because it is greater than the heat, it doth prosecute the heat by all means, and doth flow into the hot water very much, and so makes it cold.

LV. *Why when a small thing doth fly into our eye, shut we the other eye when we pull it out.*

Because that the spirit of seeing cannot go out by the eye which is shut ; but gathering it self together, goeth with all abundance unto the eye which is open and doth fill it, and make it swell outward, and so that is driven out and expelled that is in them.

LVI. *Why do such as are buffeted see fire?*

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Because that the spirit of feeling being made thin and slender with the blow, doth wax fiery; and so going into the air is seen as it is. The like doth happen when two stones, or two pieces of iron stricken together: for the air between both is greatly rarified and made thin, and becometh fire. The like also doth happen in the clouds.

LVII. *Why is not fire made by striking all stones?*

Because some of them yeild too much, and are too light, and as it were full of holes. For all striking of the air doth not make it thin alike; and by reason of its lightness doth flee and enter into every passage, and therefore it is not all stricken at once, nor doth always fire. The like doth happen by striking of wood, and fire is made of the Sun and water; for the broken beams of the Sun against the glass do wax more and more fiery; and rebound upward again.

LVIII. *Why do such as itch desire hot things?*

Because the flegm, through whose grossness cold and itching do rise, doth dull the feeling of the skin.

LIX. *Why are they then also glad of Baths?*

Because heat doth disperse the flegm, and the nails also do dissolve it.

LX. *Why do the Shoulders itch much?*

Because they are colder than the fore-parts, and therefore have much flegm in them. And that is the reason that old men, which are cold, are much troubled with the itch.

LXI. *Why is the coming down a Ladder more easie than the going up?*

Because that descending, the weight of the body doth of its own nature move downward: in ascending the strength doth labour in lifting upward the weight of the body. So a stone is easier cast downward than upward; for that which is heavy tendeth downward.

LXII. *Why do Children cry when they are first born?*

Because that nature and sense do as it were wander in a strange Country, for they come out of a warm soft body of the womb, into the cold air. And peradventure also they are afraid of the light.

LXIII. *Why do Bees, Emmets, and Flies, and such creatures as are called Insects, dye in Oyl?*

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Because their breathing hole is very narrow, which Oyl doth stop and therefore they perish.

LXV. Why doth flesh putrifie in the night under the full Moon?

Because then the Air is hot and moist, which disposition doth especially further putrification: whereof it ariseth, that if the heat and moistness be small, concoction is wrought: if great, consuming; if heat prevail, then burning. The Moon also hath four dispositions: the middle doth seem to be moist and after a sort hot: the full hot after a manner, and dry: in the wane dry and cold: when she is without light, cold and dry; for she wanteth then the Sun-beams,

LXVI. Why are such pale as are in pain and grief?

Because that nature remembring that which does vex her, fleeth with the blood into the inward parts which doth pain the skin; and it hapneth less unto those, than to such as fear.

LXVII. Why are such red, as are glad?

Because Nature doth meet that which delighteth, of her own accord, if it be without, as we do our friends and children. The blood doth follow Nature, which dieth the flesh with a red colour. Paleness cometh by its contrary unto this.

LXVIII. What is the reason, that in a dead sleep in the night, when we open our eyes suddenly, we see light?

Because that the force and spirit being gathered together in sleeping, and increased, do rush out through the dark in great abundance; and being bright, it self doth see like unto the light.

LXIX. Why do such as are ashamed cast down their eyes?

Because the eyes are the glass of the mind: for we see the affections of the mind by the eyes, as grief, anger, shame; because the mind cannot bear that which is not worthy of honour, for conscience sake it causeth the muscles of the eyes to be cast down, as it were with hiding it self.

LXX. Why can the ear endure all moistness, water excepted?

Because that the water being cold, is presently carried unto the sinews of hearing; and all cold is hurtful unto the sinews. Again, why before a great wind, are there as it were some running Stars or lightning going before to foretel it, and especially in a dry and clear element? Because that it began

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to blow before, and yet it appeared not unto us, because we have gross thick bodies of hard senses, and therefore blowing the upper air which is more thin, and pure, and heavenly, it doth convert into fire, & therefore we see some of its sparkles. When it hath gotten a greater force, it moverh this grosser air which is about the earth, and so is heard, and felt, and perceived.

LXXI. *Why cannot some see very great things afar off, yet see things which are near to them, although they be very small; as such as we call purblind, because they see best winking?*

Truly, I think that the force and spirit of seeing is very thin and pure, and therefore when it goeth far, is dissolved, and cannot reach unto the object which is seen. It doth scarce see things near, by reason of its thinness and pureness. There are some which see very small things far off, as certain old men: these contrariwise, because they have a thick spirit of seeing, and much it doth move and reach a great distance off, and by that means it is attenuated and made thin, and apt and fit to receive things visible. And so two contraries are dissolved.

LXXII. *Why are Dogs only, above another beast, limed so together after they couple.*

Because the neck of the Matrix hath a narrow passage, and the Dogs yard doth swell in coupling, and the seed is cleaved in them, which hapneth unto them by reason of their dryness; the dryness doth straighten the parts, and moisture doth make them thick.

LXXIII. *Why are dogs only mad in summer?*

By reason of their dry disposition they are very dry by nature, and most of all in Summer: and therefore when their humidity is heated and dry, they are set on fire, and so they are mad, like unto frantick men. And therefore their foam at the mouth is most dry and venomous; or, is it manifest that it is inflamed either by often breathing, or by fiery eyes, or by gaping of their mouth, which they have always open to take air, or else because their tail groweth crooked with dryness, and falleth away. They are most raging which are most dry. Some say, that the Canicular Star through its influence doth cause them to go mad.

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LXXIV. *Why are they less grieved which become blind on a sudden against their will, than they which by Election?*

Because that such that on a sudden suffer it, have their mind turned another way; but those which by choice and election, have their mind wholly upon the thing which is out, do know what they shall suffer, and therefore suffer greater torment.

LXXV. *Why do such as carry burthens go singing?*

Because the reasonable soul is delighted with Musick, and therefore turned unto it doth feel the less weight. And in like manner answer, when the question is asked. Why in Funerals, Bells, Drums and Flutes are used; and why multitudes of men resort unto such as mourn, or be sick, and use divers speeches unto them; for the mind being occupied and intensive to the words, doth feel the grief less, and therefore Comedies and Stage-plays were invented in times past, to withdraw the mind.

LXXVI. *Why do the Ethiopians for the most part die of an ague? and, why are those that are bleary-eyed ulcerated?*

These are hot and dry, and there is a kind of resolution of Elements in them, and that little humour which is in them being consumed, it happeneth that the other Elements are dissolved. The heat goeth away for want of meat, and the cold riseth up through the absence of heat. Driness doth reign through the consumption of moistness; and for that cause dead carcases are cold and dry. And therefore Homer did know, that in dead bodies two Elements did flee away, that is the highest and thinnest; and two remained: There went away fire and air, and there remained water and earth, that is, dryness and coldness. They are exulcerated and blistered in the bleariness of their eyes, because that the blood is made full of choler by the inflammation which doth eat the eyes with its sharpness.

LXXVII. *Why are such always athirst that have the Dropsie?*

Because the moisture is salt, and passeth not away, but doth putrifie and dry the mouth of the stomach; and they have small Feavers withal. Further, look how much more the belly is puffed up, so much the more the rest of the body is dried, seeing it is not naturally nourished, and doth wax feeble.

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bler and feebler : for much of the food turneth into water, and increaseth the disease.

LXXVIII. *Why do we in the beginning of a Banquet, and before we be full, sit close ; and before the end of the Banquet, we take more room, and think our selves pressed ?*

Because that in the beginning all which sit desire, and have an appetite unto the meat, and therefore have an eye unto that which is on the table, and all do fall to it. But after they are well satisfied, one bloweth one way, and another another, and have no care at all of that which is before them ; and by this means after meat we take more room.

LXXIX. *Why in whatsoever place we have hairs, wax they gray, save under the arm-pits ?*

Because that place is hot, because it is thick of arteries, sinews and veins, and is also thin, and therefore doth always void the excrements of flegm, and therefore doth sweat always.

LXXX. *Wherefore if flegm be cold, and thick, and clammy ; and likewise black choler cold and thick, but much less than flegm ; yet a Quartan Ague is longer than a Quotidian ?*

Because that flegm, although it is cold, and much of it, yet it is moist, and moistness is easily altered and changed. Black choler, or melancholy, is cold and dry, and therefore is hardly altered and changed. They deceive therefore with the likeness of cold and abundance of choler, and do hide some contrary quality. Furthermore, flegm is more agreeable unto nature than melancholy ? and therefore when a mans health doth perish with hunger, nature doth turn flegm into nutriture. And therefore when it is Quotidian Ague, she turneth all the profitable flegm into nourishment, and that which is unprofitable putrifieth, and kindleth an Ague.

LXXXI. *Seeing that there are four humours which do sometimes putrifie, wherefore are there only but three agues, and not four ?*

Because that blood naturally is a nutriment of the body, and when it doth abound, it causeth a repletion only, if it be corrupted, it remaineth blood no longer ; for being heated it is changed into yellow flegm. Therefore the other humours abounding, breed diseases, and especially about the skin ; as serpentine ulcers and cankers, two kinds of leprosie, and

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and when they be corrupted they breed Agues.

LXXXII. *What is the reason that the external parts of the bodies of Lovers are sometimes cold, sometimes hot?*

Because that when they conceive any grief or dolour against their well-beloved, the natural heat passeth away with the blood into the internal parts of the body; whereof it cometh that the outward parts are cold, and for the same cause they become pale and sad. But when they receive any good hope of their lover to be greatly angry, then the heat with the blood goeth to the skin, and becometh hot and ruddy. And for the self-same cause, Painters do paint love to be sometimes sad and quiet, sometimes fleering and laughing; a very boy and child, because that lust is vehement, but dureth not long; the affection in lawful friends is durable, as in fathers towards their children, and wives towards their Husbands; but love doth not last. And it hapneth oft among such as are unknown the one to the other. The other disposition and affection is firm and stable; and immediately love is vehement and like unto a mad man. They feign love to be a firebrand, and to have wings, because that the minds of lovers are in suspence, and hang doubtfully, and are inconstant like birds; and then their heat burneth their heart with an incessant and vehement care of that which they love. He holdeth a sword in his right hand, and in his left a quiver with many arrows; because that in the beginning love doth arise from one beam and glance of the eye; for he doth see and desire at the same time: and as soon as he doth desire, the lover sendeth continual beams of the eye towards that which he loveth. And those beams are like unto arrows, because the lover doth dart them into the body; they are as arrows in the quiver, because that those which love, send forth secret beams and glances of the eye. As the wind doth kindle the fire, so custom doth kindle love; for properly love doth not rise of custom; for if it were so, then of necessity custom should always breed love; but the beginning of love is sudden: He is naked, because that desire happeneth without any meats; for no man loveth by another, nor privily, nor whom he knoweth not. And therefore Carvers do sometime carve Kings and Gods naked for honours sake, there-
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by to shew that they have no hidden vice lurking in their breast, but that their thoughts are open and sincere. Love is not one, but many, either because there are divers lovers of things (for they love not alike) and *Plato* saith, that love is the beast with many heads; or else because (as the same *Plato* saith) the same love falleth under many lovers. Love hath *Venus* for his Mother; that is Sensuality and Lust; and by the Image of *Venus* they feign unlawful desire. Love is said to have been in love with *Erynnis* a Fury of Hell, because that many have loved wickedly, and been in thrall to wicked affections; as I have declared in my second book of Allegories, which I made of their feigned stories.

LXXXIII. *Why do some die in a Plague, and some not*

This proceedeth of their disposition of body: for if a man have a body full of evil humours, the air which is corrupted doth enter into, and corrupt that little good humour which is left in him, and so all the humours being corrupted, he must needs perish. But if a man have not many superfluites, and doth abound with good humours, he is either not at all, or not much offended with the Plague. That the disposition of the body is the cause of the effect, it doth appear by the example of external things. The Oak is not easily subject to alteration, nor is it easily set on fire: Reeds and Rushes are much more apt to receive fire, and straw more then they. But if you take wet straw, and green reeds, and very dry oak powdered over with brimstone, you make that fit to burn which is not fit. By this example you may resolve another Question. How cometh it to pass that weariness doth rather breed a Quotidian Ague then that which breedeth of putrification, or that which is called Habituall, for we say, that this doth proceed from the disposition of the body, for he had not any superfluous natural spirits or humours. All things which are found and solid, are dry; and the cause is the same: why the heat of the Sun doth provoke sleep in some, and in some other not; for he in whom there is much flegm, that being dispersed, doth moisten the head, and then he is in a sleep; but such as have dry heads, are kept more awake, because they are made more dry.

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LXXXIV. *Why doth the Sun make a man black, and make dirt white; and make wax soft and dirt hard?*

By reason of the disposition of the substance which doth suffer. All humours, flegm excepted, when they are heated above measure, do seem black about the skin: but dirt being full either of Salt-petre, or other Salt Liquor, when the Sun hath consumed its dregs and filth, doth become white. Again, when the Sun hath drawn and stirred up the humidity of wax, it is softened: but in dirt the Sun doth consume the humidity which is very much, and so doth dry it, and make it hard.

LXXXV. *Why do such as are sick of the Jaundies go to siege? and why is their excrements white?*

Because that yellow choler is spread over all their bodies, as their eyes do shew, and their skin; for it doth not flow into the inward parts, as by nature it should, and by that reason their excrement is not coloured, nor doth provoke them to the stool with its sharpness, which in the guts it should do. And therefore Physick imitating nature, as all other Arts do, when the Patient is in danger, doth help the part affected.

LXXXVI. *Why have such a very black skin for a time, which have a continual ague, after the time of judgment, which the Physicians do call Crisis.*

That doth happen through continual yellow choler, the which being burnt and adust by the rigor of the disease, is turned into black choler. And so in that time of judgment being driven and repulsed by nature to the skin, it doth dye it. As also the skin is white in Leprosies: that colour is hardly dissolved, by reason of the thickness of that humour.

LXXXVII. *Why doth black choler, coming unto the Paps, or to the shank, work a corrosion, or gnawing, or wasting, and in those which are melancholy, it doth not work the like although it fly into their brain?*

Because there are many great Veins in the Paps, by reason of ingendring of milk, and therefore store of that humour doth run thither. And likewise unto the shank, because it goeth downward: but into the brain, because it is above, and also because it hath very small veins, small store of choler doth

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doth descend, and which hath only power and force to prick, and not to gnaw and eat. Moreover, the brain is cold and moist, whereby it is after a sort contrary to the disposition of black choler, and doth mollifie it. That therefore which is properly called black choler, doth breed an eating and gnawing canker in the Paps, in the shank, a bile or sore hard to be cured, which of eating is called *Nimadis*. In the brain it doth breed a mad fierce melancholy; but that which is not properly black choler, but a melancholy humor, causeth a swelling only, which is like a Canker, but doth not gnaw and eat, and doth also breed a quiet and peaceable melancholy.

LXXXVII. *Why do those vessels which by the Greeks are called Baulralia (a kind of Vessel or Drinking-glass with a narrow strait mouth) when they are filled with water make a certain noise proper unto themselves, and thereupon have their names given them, as other feigned names of sounds, as in the water, Plotsher, and such like?*

Because that when such a Vessel is without water, it is filled with air, which is a most thin body: and therefore when the water is on a sudden poured into it, with its heat it doth follow and beat out the air, which is thin, and excludes it utterly; for they cannot both stay in the Glass or Vessel untill it be full. For the Philosopher doth shew that two bodies cannot at one time possess and occupy the same place. And therefore when the air is on a sudden thrust upward through straits, a sound or noise is made of necessity, and that not one but many, for then is, as it were, a fixt betwixt both; for the water doth press down the air, and the air listeth up the water; and although that be done successively, yet there is oftentimes a noise.

LXXXVIII. *What is the reason that when we put our finger on the mouth of a watering-pot, the water will not run out of the bottom, and the finger being taken away, it runneth presently?*

Because that when our finger is taken away from the mouth of the pot, the air entring in, doth thrust down the water, which of its own nature doth go downward, and so goeth out at the bottom. And this is the reason of all mechanical engines and instruments made by air and water, as clocks and hour-glasses made by water.

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LXXXIX. *Why doth wine and water given out of season unto the sick of an ague, cause a great distemperance of the brain; for these two are contrary, for the water is cold, and the wine hot?*

I say then, that the wine being apt to ascend, doth burn the brain at the time that it is disturbed and distempered with the ague. And we see also many which are in health, if they use much wine, to be scarce well in their wits. But water doth stop the passages of the body, by which the spirits (which are the instruments of the soul) are dissolved, and so cause them to be become more thick and gross, and more corrupt and putrified, which breedeth the ague. And oftentimes water being overcome by the ague, becometh its nourishment; as we see in a Smiths forge, where a little water doth kindle the fire, and make it burn more.

XC. *Why have women, and children, and gelded men, shrill and loud voices?*

Because through abundance of humidity their artery is not stretched wide: And therefore as a small flute or pipe giveth a small slender sound, so in the artery in them which is strait and narrow; for it is the property of heat to make wide and loose; and women and Eunuchs be cold.

XCI. *Why are children stricken with a Plauet in Summer?*

They are sick of a weak and lingering ague, and their eyes sink hollow in their head, and they become weak and feeble, and sleep very little; and some of them have a flux, because children are tender, and easily suffer, and have great store of flegm in the head, as we have said: And therefore the flegm being overmuch heated with great heats, and also putrified, doth inflame an ague, whereupon the gristles of the brain are set on fire, and therefore they sleep little; and that fire descending by the arteries of the heart, and setting on fire the lively spirits, doth kindle an ague without putrification. And seeing that much choler ariseth of an ague, thereby it falleth out, that the choler gnawing and eating the belly and guts, the flux or running of the belly ariseth. It is most plain, that the cause of that alteration is in the brain, because that cooling medicines are applied unto the head, and such as are good to quench that fire. And some of ripe years are sick of the same disease, that is such as have flegm
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and choler heaped in their head, which both putrifie by the very breathing thereof, and after a manner, by the fiery air the spirits are set on fire.

XCII. Why are round Ulcers hard to be cured?

Because they breed of sharp choler which hath the force of eating and gnaw. And because it doth run dropping and gnawing, it doth make a round Ulcer: and for that cause it requireth medicaments which dry and burn: and this the Physicians do speak. The natural Philosophers do say, it cometh to pass, because there is the beginning where the mischievous Imposthume doth begin: for in a circle there is neither beginning nor end; and when they are burned by the Physicians they make another shape.

XCIII. Why is honey sweet unto all men, and yet seemeth bitter unto such as have the Jaundies?

Because they have much bitter choler over all the body, and which aboundeth in the tongue. And therefore it happeneth when they do eat honey, that the humors are stirred; and the taste it self, when it hath felt the bitterness of choler, breedeth an imagination that the honey is bitter.

XCIV. Why have very angry men fiery eyes?

Because the blood about their heart is fervent, and the spirits hot, and therefore the spirits being very subtil and pure, are carried upward; and by the eyes which are clear, they shine and have bloody vapors ascending with them; and thereupon their face appeareth red: which Homer not being ignorant of, saith, and his eyes were like a burning flame.

XCV. Why doth water cast upon Serpents cause them to flee?

Because they are cold by nature, and dry, and have but little blood, and therefore they flee from excessive coldness. And that they be of this quality, it appeareth, because they seek for dens and secret places of the earth in Winter, as being warm places: and at Sun set they flee the air, for the part is cold. And again in Summer, because the bowels of the earth are cold, they flee from them, and go into hot places.

XCVI. Why doth an egg break if it be roasted, and never break if it be sod in water?

Because

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Because that when its moistness cometh near unto the fire, it doth heat overmuch, and is burned, and thereby doth breed much wind, the which through the straitness of the places doth seek a way out, and so breaking the shell, doth flee out.

The like is in Tubs and earthen Vessels, when new wine doth boil in them. Also too much flegm doth break the shell of an egg in roasting; which doth happen in earthen pots overmuch heated and burned: and therefore the common people do wet an egg when they purpose to roast it. Hot water, through its softness, doth separate the humidity by little and little, and doth dissolve it through the thinness and passages which are in the shells.

XCVII. *Why do men in the act of carnal copulation after a sort wink, and suffer such like alteration in the other senses?*

Because they being overcome with the effect of that pleasure, they do comprehend it the better, as it were winking with their eyes. They are not lifted up, nor do carry the wind abroad into the air with the senses, whereby they could less feel those corporal affections.

XCVIII. *Why have some medicines of one kind contrary force; as experience doth teach; Mastick doth expel, dissolve, and also knit; Vinegar doth both cool and heal?*

Because there are some small invisible bodies in them, not by confusion, but by interposition. As sand moistned doth clog together, and seemeth to be but one substance of body, yet in truth there are many small bodies in the sand. If this be so, it is not absurd that contrary qualities and vertues should be hidden in Mastick in divers parts of it, and not confounded with it, because that nature hath given the Law unto those bodies.

XCIX. *Why do our privy members swell when we hurt one of our toes?*

Because that nature providing for those things which belong to the body, doth speed to help those parts which are grieved: and because she hath the more profitable and nourishing of all the humors for her wagon, it is requisite when she doth descend unto the toe, together with the blood, that those veins be filled which are about the privy members

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bers those parts which are about those vessels which are called *Adines* of the Greeks, which are little round kernels. Therefore an immoderate constipation doth cause inflammation and standing up; and that privy member is called *Inguen*, borrowing its denomination of the place it self?

C. Why hath not nature given birds a bladder, or a receptacle for urine and kidneys?

Because they did want much moisture to give matter for feathers to grow, and that also they do consume with the exercise of flying; neither do they piss at all, and when they drink, they void very moist dung.

CI. Why have children gravel breeding in their bladder, and old men in their kidneys, and reins of the kidneys?

Because Children have straight passages in the kidneys, and an earthy and thick humour is thrust with violence by the urine from the fashion of the Moon, even unto the bladder of the urine. The bladder hath wide conduits and passages, that giveth room to the urine to go out, and also place to the humour, whereof the gravel is engendred, to wax thick, and seat it self, as the custom of it is. But in old men it is contrary; for they have large and wide passages of the reins of the back and kidneys, whereof it cometh to pass that the urine may pass away, and the earthy humour congeal and sink down. The colour of the stone doth shew the humour whereof the stone doth arise.

CII. Why, if the stone do congeal, and wax hard through heat, (children are hot) and by the same reason it is done in old men; for there is not so much cold to be granted, as there is in ice or snow? for which extream cold, the kidneys would perish; yet we use not contrary things to dissolve coldness, but light things, that is hot things, as Parsly, Fennel, and such like.

They say then it falleth out, that by exustion, parching, and scorching, the stones do crumble into sand, as in earthen vessels, which when they are over-heated and roasted, they become sand. And by this means it falleth out, that small stones are voided together with small sand, in making water; and sometimes it falleth out, that cold drinks do thrust out the stone, the kidneys being stretched, and cast-

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ing it out by a greater Lask by vertue of easing the belly of his burthen. And besides this, it falleth out, that an immoderate heat of the kidneys or reins of the back, by reason whereof the stone doth grow, is quenched with coldness.

CIII. why is the curing of an ulcer or bile very hard in the kidneys or bladder?

Because that the urine being sharp, doth exulcerate the wound, which good and fit medicaments do cover and skin. Ulcers are harder to be cured in the bladder than in the kidneys, because urine doth stay in the bladder, and doth run away from the kidneys.

CIV What is the reason that in bathing Vessels, the hot water when it is stirred, doth seem more hot unto us, and almost burn our bodies?

Because that when we go down into those baths, the water it self doth suffer; that is, when the water doth heat our bodies, the water after a sort is made cold by us. We have learned, that whatsoever doth work in generation and corruption, the self-same without all doubt doth suffer; the water then being in some sort cooled, doth not heat alike; and we being accustomed unto it, do not feel the heat as we did in the beginning, because that the immoderate heat of it is diminished: If then stirring the hot water, more fiery hot water be added unto it, which neither hath yet wrought nor suffered any thing of the body which is in the water, that will seem very hot and scalding, in respect that working it doth also suffer, and by little and little doth lose his heat as the first did.

CV. How is it, if whatsoever be moved is the better for it, and especially in a hot air and place, yet when the air is beaten, and stirred, it doth seem colder unto us, and especially in Summer when the heat of the Sun is most hot?

For this doth seem contrary unto the other: for hot water did seem hotter unto us by moving, and here the hot air doth seem colder when it is stirred and moved. I say therefore that it is a common thing, that that which is moist and principallest in any thing, either in quality or vertue, doth overcome and change that which is lesser and weaker; and that which is the stronger doth somewhat suffer again in doing. Therefore the hot wa er, when it is very hot, sticking unto the

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the hot body is somewhat cooled, and doth not keep the same quality. The air then which doth compass us about, being hot in Summer, like unto the water compassing our bodies, is heated somewhat by us, which are hot through the heat of the time of the year, and doth likewise heat us, as linnen garments do, the which being first cold, then being made hot by us, do then heat us again. When we do then stir the air, that air which was before heated by us is driven away, and another which is not yet heated, doth succeed, which seemeth cold unto us.

CVI. Why do those sores which breed in the ball of the eye seem white, when they have left growing and are cold, and others do not seem such as grow out of the ball?

Because that through the ball of the eye the only spirit of seeing doth go out, the which is bright and clear. Therefore in the white of the eye, when the wound doth make thick the passage of the covering of the eye, which is like a horn, the spirit of the sight cannot issue out; whereof it cometh to passe, that much of it being there gathered together, it doth make the wound light and clear, and sheweth the wound white. And because that by reason of the thickning of the sight, the spirit cannot go out, it falleth out they cannot see.

CVII. Why do chaff and straw keep water hot, and snow cold, which are contrary in quality?

Because the nature of chaff doth want a manifest quality, and is said of some to be without quality; seeing therefore that of their own nature they can easily be mingled and consumed with that which they are annexed unto, they easily also take the same nature unto them; and therefore being put unto hot things, they are easily hot, and do heat again, and keep hot; and contrary being made cold of the snow and making the snow cold, do keep in its coldness. So wax and oyl will easily be consumed, and made one with another thing, and are also without quality, and do help the quality of that which is mingled with them, as being made one with them.

CVIII. Why do the stars and heaven seem clearest in the bright winter times?

Because the air either which doth compass us, or that which is highest, is made thin and purged with winds and
showers

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showers of rain, and by that means our sight doth see both further and clearer. The like is manifestly seen in running rivers: for such things as are in them, are far better seen than in the thick standing puddle water, where either nothing is seen or confusedly.

CIX. Why have we oftentimes a pain and do quake in making water?

Because that sharp choler issuing out, and pricking the bladder of Urine, doth provoke and stir up the whole body to ease the part offended, and to expel the humour moderately. This doth happen most of all unto children, because they have most excrements, by reason of their often filling.

CX. Whereof are griefs greater in the night than in the day?

Because the mind being then idle and at rest with it self, is neither busied with the sight nor hearing, nor occupied with any other sense, and doth nothing at all, nor is urged to any external action, and thereupon is much more touched with the feeling of any trouble or grief. It is very plain that the mind doth less feel the griefs of the body, when it is drawn abroad by external work, seeing that in sickness, and other like accidents, the company of familiarity of friends, and communication, and tales telling, do make their troubles and griefs more light and tolerable. Men have marked that nature doth least work by day, in digesting of Mears, in altering of humors, in making of blood, in growing and such like operations; but the mind is then most occupied in his actions: as in the five senses, the motions of the parts of the body, the imagination in thought, in memory: and contrary in the night, then Nature worketh most, and the mind least.

CXI. Why are not children, and especially infants so easily shaken and put out of joynt as men?

By reason of their softness, and yieldeth to the earth, they do dissolve its hardness that can work no further. Men therefore having a hard body, because they do resist the hardness of the earth or stone, they do increase the vehemency of the blow, and force the stones to work against themselves, as being hard themselves. And for the same reason, a sponge yielding, is not broken; but glass, an earthen pot, or any such

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such other hard body is broken with a fall. And by this also we learn why a vehement blast of wind doth overthrow an Oak, and not a Reed, because that the Oak being hard, and strong and great, doth resist the wind, and so makes its force more strong: but the Reed being light, and soft, and small, yielding hither and thither to the wind, doth break its force. So a Wrestler striving against his Companion, doth increase his force; in yielding sometimes and bowing with him, doth sooner break his vehemency.

CXII. Why do infants hearing their Nurses sing, cease their crying, and sleep presently after?

Because that the substance of musick as being a science (and all other Arts) are ingrafted naturally in the mind, as heat is in the fire. Plato doth say, our minds doth remember sciences and not learn them. And therefore the mind hearing such a song in that that he doth remember, causeth the infant to be quiet; and in that he taketh pleasure, it doth draw on sleep. For not being infected with the company of the body, he perceiveth those sciences, very plainly; and being somewhat drowned in the body, falleth into some oblivion of them.

CXIII. Why do Nurses rock and move their Children when they would draw them to sleep?

To the end that the humors being scattered by moving, may move the brains; but those of more years cannot endure this.

CXIV. Why do some drunkards see double?

Because the muscles of the sight being more or less filled, and by the self same means weak and feeble, do draw and wrest one eye upward, and the other downward, and by that means the beams do not look that way at once, but towards divers places and bodies, and therefore each of the eyes using a private office and duty of seeing, doth cause a double sight.

CXV. Why are boys apt to change their voice about fourteen years of age?

Because that then nature doth cause a great and sudden change of age; experience proveth this to be true: for at that time we may see that womens paps do grow great, to hold and gather milk, and also those places that are about the hips

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in which the young fruit should remain: likewise mens breast and shoulder, which then bear great and heavy burthens: Also their stones in which their seed may encrease and abide, and his privy member, to set out the seed with ease. Further, all the whole body is made bigger, and dilated, as the alteration and change of every part doth testifie; and the harshness of the voice and hoarseness: for the rough artery or wind-pipe being made wide in the beginning, and the exterior and outward part within unequal to the throar, the air going out at the rough unequal and uneven pipe, doth become unequal and sharp, and after a sort hoarse, like unto the voice of a Goat, whereof it hath its name *Bronchus*: The same doth happen unto them into whose rough artery any distillation doth flow. It happeneth by reason of the dropping humidity that a light small skin filled unequally, causeth the uneven going forth of the spirit and air. Understand that the Wind-pipe of Goats is such, by reason of the abundance of humidity. The like doth happen unto all such as Nature hath given a rough artery, as unto Cranes. After the year of fourtreen they leave off that voice, because the artery is made wider, and reacheth his natural evenness and quality.

CXVI. *Why doth Oyl, being drunk, cause one to vomit, and especially yellow choler?*

Because that seeing it is light and ascendeth upwards, it provoketh the nutriment in the stomach, and listeth it up, and so the stomach being grieved, summoneth the elective vertue to vomit, and especially choler, because that is light, and consisteth of subtil parts, and therefore it is the sooner carried upward; for when it is mingled with any moist thing it runneth into the highest room,

CXVII. *Why doth not Oyl mingle with moist things?*

Because that being pliant, soft and constipate in it self, it cannot be divided into parts, and so cannot be mingled; neither if it be put upon the earth, can enter into it.

CXVIII. *Why is water and Oyl frozen in cold weather, Wine and Vinegar not?*

Because that Oyl being without all quality, and fit to be confounded with any thing, is cold quickly, and so extremely,

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ly, that is most cold : Water being cold of nature, doth easily freeze when it is made colder than its own nature. Wine being hot, and of subtile parts, is not so soon cold : but Vinegar being of most subtile parts, suffereth no freezing.

CXIX. Why do contrary things in quality, bring forth the same effects ?

That which is moist, is hardened and bound alike of heat and of cold; Snow and Liquor doth freeze with cold : a plaister and gravel in the bladder are made hard with heat. That is so indeed, but by two diverse actions. The heat doth consume and eat the abundance of moisture ; but the cold stopping and shutting with its overmuch thickness, doth wring out the filthy humidity ; like as the sponge wrung with the hand doth cast out the water which it hath in the pores and small passages.

CXX. Why doth a shaking or quivering seize oftentimes when any fearful matter doth change, as a great noise or a crack made, the sudden downfall of water, or a great Tree ?

Because that oftentimes the humours being digested and consumed with time, and made thin and weak, all the heat vehemently and suddenly, and sharply fleeing unto the inward parts of the body, consumeth the humours, which causeth the disease to dissolve it. Treacle hath its effect, and many such like which are hot and dry, when they are taken after concoction.

CXXI. Why do such fall which do turn round, if they be not used to do it ?

Because they do disturb the animal spirits which are in the brain, and toss them up and down together with humidities: They then be made less apt and fit to receive the sensible and motive power, and do not suffer any action to go to the muscles and sinews : whereby it falleth out, that the weight of the body, as not being born up and supported by the soul, is thrown on the earth : and for the same cause they seek darkness, because the spirit of seeing is disturbed and troubled, and cannot work like the other senses. But this doth not happen unto such as are accustomed to turn moderately, and by little and little custom doth breed this : for the soul and nature are not strangers the one to the other, but in time are as

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It were reconciled ; for that which is done by little and little and without intermission, is hidden from the same, and after that it hath often escaped, falleth not as a strange thing into nature, who was wont to receive it.

CXXII. Why do steel glasses shine so clearly?

Because they are lined on the inside with white lead, whose nature is shining, the which being put to the glass which is also shining, doth shine much more ; and casting his beams through the passages of the glass, doth double that which is in the superficial parts of the glass, and without the body of the glass, and by that means the glass is very shining and clear.

CXXIII. Why do we see our selves in glasses and clear water?

Because of the quality of the sight passing into the bright bodies by reflection, doth return again by beams of the eyes, to the image of him who looked on it. That qualities do go forth and pass from the face, as it is not absurd, they do shew which remain near unto trees, because they are wont to look green. For the green quality of green leaves passeth to the face of it self ; likewise going unto the running water doth make it shew green.

CXXIV. Why do hard dens and hollow places and high places send back the likeness and sound of the voice?

Because that such places also by reflexion do return back the image of a sound : for the voice doth beat the air, the air the place, the which the more it is beaten, the more it doth bear, and therefore doth cause the more vehement sound of the voice. Moist places, and as it were soft, yielding unto the stroke and dissolving it, give no sound again ; for according unto the quality and quantity of the stroke, the quality and quantity of the voice is given, which is called an eccho. Some do idly fable that she is a Goddess : some say that *Pan* was in love with her, which without doubt is false, he was some wise man who did first desire to search out the cause of that voice ; and as they which love, and cannot enjoy their love, are grieved ; so in like manner was he very sorry until he found out the solution of that cause ; as *Endimion* also, who first found out the course of the Moon, watching a nights and observing her course, and searching her motion, did sleep in the day time ; and therefore they do fable that he was beloved of

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of the Moon, and that she came to him when he was asleep, because she did give unto the Philosophers the solution of the cause of her self. They say also that he was a shepherd, because that in the desert and high places he did mark the course of the Moon. And they gave him also the Pipe, because that the high places are blown with winds, or else because he sought out the consonancy of Figures. *Promethius* also being a wise man, sought the cause of the Star, which is called the Eagle in the firmament, his nature and place, and when he was as it were wasted with the desire of learning, then at the last he rested, when *Hercules* did resolve unto him all doubts with his wisdom.

CXXV. *What is the reason that if you cast a stone into a standing water which is on the outermost parts of the earth, it makes many circles; and not if the water be deep in the earth?*

Because that the stone with the vehemency of the cast, doth pursue and follow the water from every part of it, until the stone come to the bottom. But if there be a very great vehemency in the throw, the circle is the greater, the stone going down unto the earth, and drawing down water with it, causeth many circles. For first of all, it doth drive the overmost and superficial parts of the water into many parts, and so going down alwayes unto the bottom, again dividing the water, it maketh another circle, and this is done successively, until the stone resteth. And because the vehemency of the stone is slackened still as it goeth down, of necessity the last circle is lesser than the first, because that with the stone, and also with the blow the water is divided.

CXXVI. *Why do some think that laughter proceedeth from the spleen, affirming, that it is not like that they laugh not much, whose spleen is corrupted, as they whose spleen is sound, but say that such are very sad?*

Truly, I think that the cause of laughter is accidental, and not properly in the spleen; for if it be sound and perfect, it doth draw from the liver melancholy humors, whereof it proceedeth, that when the pure blood, without any dregs, doth go both thorow the whole body, and also into the brain, it doth delight both nature and the mind, and doth make men merry like unto wine, and bring men to a quietness and tranquillity,

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quility, and so that of laughter is moved.

CXXVII. *Why do not Mules bring young ones?*

Because they do proceed of a diverse kind of Beasts, and so then the mixtion of the seed differing of quality and quantity, begetting a certain other thing besides that which is first, doth mar and abolish the nature of those things which first were. As the mingling of white and black, abolishing the colour of excrements, breedeth another colour which is dark and dun, which is none at all of the extreames. Therefore the ingendring quality is abolished, and aptness of receiving form.

CXXVIII. *Why are such as are deaf by nature dumb?*

Because they cannot speak and express that which they never heard. Some Physicians do say, that there is one knitting and uniting of sinews belonging unto the like disposition. But such as are dumb by an accident, are not deaf at all; for then there ariseth a local passion.

CXXIX. *Why are some stiff after meat, which are fasting?*

Because they abound with choler, and so do heap up a sower sharp humor. Therefore the parts of the body being nourished after meat, drive away from them the choler of the skin, and so that stiffness doth arise, that is choler gnawing and biting those parts, and stirring them up to pursue himself.

CXXX. *Why do not Swine cry when they be carried with their fronts downwards?*

Because that above all other beasts, they bend more than other to the earth. They delight in filth, and that they seek, and therefore in the sudden change of their face they be as it were strangers, and being amazed with so much light, keep that silence. Some say that the Wind-pipe doth close together by reason of the straitness of it, when they lye with their face upward.

CXXXI. *Why are Swine delighted with dirt?*

As the Physicians do say, they are naturally delighted with it because they have a greater liver, in which desire is; as Aristotle saith, that the wideness of his snout is the cause; for he hath smelling which doth dissolve it self, and as it were striveth with stench.

CXXXII. *Why doth itching rise when an Ulcer doth wax whole, and flegm cease?*

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Because the part which is healed and made sound, doth pursue the reliques of the humour which remaineth there against Nature, and which was the cause of the bile : and so going out through the skin, and dissolving it self, doth cause the itch.

CXXXIII. *Why are those diseases and accidents longest and most grievous which do molest one eye and not both ?*

For two causes. Because running fluxion is heaped up at one eye only ; for whatsoever is divided into many, is weaker than entire, and of a lesser strength. Or else because that when the whole eye doth move it self in its actions, so oft it doth force the sick eye to move also ; and the medicament of every diseased part doth consist in quietness.

CXXXIV. *Why doth a man sneeze more often and more vehemently than a Beast ?*

Because he doth use more meats and drinks, and of more divers sorts, and that more than is requisite ; the which when he cannot digest as he would, he doth gather together much air and spirits, by reason of much humidity, the spirits being then very subtile, ascending unto the head, it forceth the man oft to avoid it, and so causeth sneezing. And so it makes a noise because a vehement spirit or breath passeth through the conduits of the nostrils ; as belching by the stomach, or a fart from the belly, the voice by the throat, and a sound by the ears.

CXXXV. *Why do dead mens hair and nails grow for a while ?*

Because that the flesh rotting, withering and falling away, that flesh which was hidden about the root of the hair doth now appear and deceive, and cause an imagination that the hair doth grow. And some say, that it groweth in very deed, because the dead carcases are resolved in the beginning to many excrements and superfluities, by reason of the putrefaction which cometh unto them. These going out of the overmost parts of the body, by some passages and pores, do encrease the growing of the hairs.

CXXXVI. *Why have children, rather than men, certain white spots in the nails of their fingers, rather than their feet ?*

Because they do breed of flegm, and the children do abound with flegm more than men, because they be fatter, and greater eaters. And the feet by reason of walking and motion, do dissolve superfluities more than the hands ; and therefore those

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those spots do not appear in the nails of the feet.

CXXXVII. Why do not the hair of the feet quickly grow gray?

For the same reason, because that through great moving and walking, they do disperse and dissolve the superfluity of flegm, which doth breed greyness. And the hair of the secret parts doth grow grey very late, because of the heat of that place, and because that in carnal copulation it doth dissolve flegm also.

CXXXVIII. Why do very many beasts wag their tails when they see their friends; and a Lion and a Bull beat their sides when they are angry?

Because they have the marrow of the back reaching unto the tail, which hath the force of the moving in it. The imagination acknowledging that which is known unto them as it were with a hand (as it doth happen in men) doth force them to move their tail: which doth manifestly shew some secret force to be within them which doth acknowledge that which they ought. In the anger of Lions and Bulls, nature doth consent unto the mind, and doth enforce it to be greatly moved, as men do sometimes, when they are angry, beat their hands on other parts; when the mind cannot take revenge upon that which doth hurt, it doth presently seek out some other solace, and doth cure his affection with some stroke and blow.

CXXXIX. Why if you put hot burnt barley upon a horses sore, is the hair which grows upon the sore not white, but like the other hairs?

Because it hath the power of expelling, and doth wipe away and dissolve the excrements of the flegm, and also unprofitable matter which is gathered together through the weakness of the parts, or crudity of the sore.

CXL. Why doth hair never grow in mans ulcers or biles?

Because a man hath a thick skin, as it is seen by the softness and thickness of his hair. And seeing the scar is thicker than the skin it self, it doth stop up the passages whence the hair should grow, Horses have thinner skins, as it is seen by the thick hair, and therefore all passages are not stopped in their wounds and sores. And after that the excre-

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ments which were gathered together, have broken a passage through those small pores, the hair doth grow.

CXLI. What is the reason that such as are bitten with a snake being most exceeding athirst, do quench their thirst, and increase it, by drinking of treacle, which is hot and dry?

I say then, that it doth not quench the thirst by reason of his quality, but by some mutual sympathy and consent, and natural reason; this is a kind of counter-poyson and preservative, which is made of divers sorts of herbs which have some kind of consent and agreement with all the parts of the body, as *Dictamnus*, *Dittander*, or *Ginger* hath a proportional conservative of the heart; *Agrimony* or *Liverwort*, with the Liver; *Stone-wort* or *Finger-fern*, with the Spleen; *Parsly* with the mouth of the Belly, *Hysop* with the Lungs; *Elicampane* with the Reins of the back; *Rue* with the neck; *Bitterwort* with the brain; and *Siler Montanum* with the bladder of Urine. Every one of these drawn as it were with the sweetness of honey, doth draw that which is best for his safety; amongst all which, the blood of some Vipers is mingled, which hath a certain natural disaffection which we call *Antiparhiam*, a contrary of all natural qualities, against every venomous Beast and corruptible creature: These being distributed into every part, they suffer not to work that effect which doth threaten corruption; for they do resist like unto lawful Souldiers, who have taken arms for the defence of their Countrey.

CXLII. Why is fortune painted with a double forehead, the one side bald and the other hairy?

The bald signifieth adversity, and the hairy prosperity, which we enjoy when it pleaseth her.

CXLIII. Why have some commended flattery?

Because flattery setteth forth before our eyes that which we ought to be, although not that which we be.

CXLIV. Wherefore should vertue be painted girded?

To declare that virtuous men ought not to be slothful; but diligent and always in action.

CXLV. Why did the ancients say, that it was better to fall into the hands of a Raven than a flatterer?

Because Ravens do not eat us till we be dead; but flatterers do devour us alive.

CXLVI.

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CXLVI. Why have cholerick men beards before others?

Because they are hot, and their pores large and wide.

CXLVII. Whereof doth it proceed, that such as have the hicket do ease themselves by retaining their breath?

The breath retained doth heat the inferiour parts of the body, and the hicket proceedeth of nothing else but of cold.

CXLVIII. Wherefore doth it proceed, that old men remember well that which they have seen and done in their youth, and do forget such things as they see and do in their age?

Things learned in youth, have already taken root and habitude in the person: but things learned in age are forgotten, because the senses are weakned in them.

CXLIX. What kind of covetousness is best?

The Covetousness of time, when it is employed as it ought to be.

CL. Why is our life compared to a Stage-play?

Because the unhoneft do occupy the place of the honest, and the worst sort the room of the good.

CLI. Why do Dolphins when they appear above the water, signify some storm or tempest to come?

Because that at the beginning of the tempest there do arise from the bottom of the Sea, certain hot exhalations and vapours which do heat the Dolphins, which doth cause them to mount to seek for cold.

CLII. Wherefore are things more quiet in the night than in the day?

The motion of the air and the coldness of the night is the cause thereof, which coldness doth stay & hinder the motions.

CLIII. Wherefore did the Romans call Fabius Maximus the Target of the People, and Marcellus the Sword?

Because the one gave himself to maintain the Commonwealth, and the other was very eager and sharp to revenge the enemies of the Country. And yet they were in the Senate joyned together, because the gravity of one would moderate the courage and boldness of the other.

CLIV. Why doth the shining of the Moon hurt the head?

Because it moveth the humors of the brain, and cannot afterwards resolve them.

CLV. If water do not nourish, why do men drink it?

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Water causeth the nurriment to spread through the body.

CLVI. Why is sneezing good?

To purge the brain, as the milt is purged by the cough.

CLVII. What is the seat of the affections of the body?

Joy dwelleth in the spleen, anger in the gall, fear in the heart, lechery in the liver.

CLVIII. Why is sodden water lighter than cold?

Boiled or sodden water hath less ventosity, and is more light and subtil, because the earthy and heavy substance is separated from it.

CLIX. Wherefore are the waters of Marshes and Ponds evil?

Because they are flegmatick and do corrupt in Summer time, because the finest of the water is corrupted into vapors, and the earthiness doth remain.

CLX. Why be studious and learned men soonest bald?

It proceedeth of the weakness of the spirits, or because want of Digestion causeth flegm to abound in them.

CLXI. Why doth too much watching make the brain feeble?

Because it doth multiply choler, the which by that means doth dry and extenuate us.

CLXII. Why be steel glasses better for the sight than other glasses?

Because steel is harder, and doth present unto us more substantially the air which receiveth the light.

CLXIII. Whether doth love shew his greatest force, either making the Fool to become wise, or the wise to become a Fool?

In giving wisdom to him that hath it not; because it is more hard to build than to pull down; because that ordinary love and folly are but an alienation of the mind.

CLXIV. Why is overmuch labour naught for the sight?

Because it dryeth the blood too much.

CLXV. Why is Goat's milk accounted best for the stomach?

Because it is thick and not slimy, because they feed on boughs and wood, rather than on grasse.

CLXVI. Why doth much grief and vexation bring age?

Because it dryeth, and age is nothing else but a droughr.

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CLXVII. *Why is he the most merry that hath the thickest blood?*

The blood which is fat and thick, maketh the spirits firm and constant, wherein consisteth the force of all creatures.

CLXVIII. *In your opinion which is hardest, to obtain the love of one, or to keep it being obtained?*

To keep and maintain it being gotten, by reason of the inconstancy of women, which are quickly angry, and soon weary of one, lightly found and slippery to keep.

CLXIX. *Why do Serpents flee from the herb called Rue?*

Because a Serpent is cold, dry, and full of sinews, and the herb Rue of a contrary nature.

CLXX. *Why is a Capon better to eat than a Cock?*

The Capon loseth not his moistness, because he treadeth not the Hens as a Cock doth, and therefore is better.

CLXXI. *Why do we smell a thing lesser in the Winter time than in the Summer?*

Because the air is thicker and less moveable.

CLXXII. *Why doth hair burn so quickly?*

Because the air is dry and cold.

CLXXIII. *Why is Love compared to a Labyrinth?*

Because the entry and coming in is easie, and the going out impossible or very hard.



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